

Final Report

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Institution: University of Illinois Chicago

Title: IGERT: Graduate Program in Computational Transportation Science

Research Accomplishments

-Development of our program's Intelligent Traveler Assistant (ITA) prototype. We designed three applications that will be incorporated into the ITA prototype and are promising in the following senses: (i) They demonstrate existing CTS IGERT research; (ii) They are feasible to build within the scope of the IGERT project; (iii) They go beyond the current state of the art; and (iv) They will add value to the travel experience. An ITA application that disseminates traffic information was developed using the smart phones purchased by the IGERT grant. We conducted road tests that verified the viability of the application.

-An interdisciplinary team including Co-PI Piyushimita Thakuriah and Trainee Caitlin Cottrill collaborated on research for the Federal Highway Administration. The research addresses a lack of models to prioritize Intelligent Transportation System (ITS) deployment. The team developed a decision-support model incorporating the ITS project prioritization and sequencing decisions. Its specifications are based on the Analytic Network Process model, which synthesizes qualitative and quantitative criteria. The model is designed to factor the relative importance of proposed projects to different stakeholders into the decision-making process, as well as include the relative importance of each stakeholder. This allows for a more coherent and formalized recognition of the political and environmental forms in play, and better accounts for the needs and preferences of stakeholders. The results lie at the intersection of economics, transportation, and decision support systems.

-We developed algorithms for disseminating reports about real-time road and congestion conditions in vehicular ad-hoc networks (VANETs). In them, each vehicle makes local decision on when to disseminate reports, how many to disseminate, and which reports to disseminate. To deal with the bandwidth and memory constraints, reports are prioritized in terms of their value. We compared the proposed algorithm with Grassroots, an existing VANET dissemination algorithm. The results show that the proposed algorithm significantly outperforms Grassroots. We also studied query processing in VANETs, where infrastructure communication is also available. Analytical models are developed to compute the response time. Based on the analytical models, the query processing schemes are compared under various environment conditions. None of the studied schemes is optimal in all the conditions, thus we provided a method that allows the optimal scheme to be chosen for a given set of environmental conditions.

-We investigated the problem of modeling urban transportation systems in a database where certain aspects of the data are probabilistic in nature. The transportation network is composed of multiple modes (e.g., automobile, bus, train, pedestrian) that the user can alternate between. A trip (a path between an origin and destination subject to some constraints) is the central concept. We studied how these trips and the network can be represented as both a graph and relational model, as well as the requirements for querying. A set of operators were designed to work over these transportation

concepts and they are integrated within a SQL-like syntax to express queries over the uncertain transportation network. Additionally, we showed how this model can be integrated within other moving objects and spatio-temporal data models, and how these graph-based queries can be processed.

-TransitGenie, a real-time transit navigation platform with an iPhone client interface, was created. There are 4000+ users in the Chicago area and the number of users is rapidly expanding. This provides an environment in which to apply new findings in transit routing and related areas. The latest version of TransitGenie, 7.0, was released in December 2013, and is available for free download in Apple's app store for iPhone.

-A new sequential associative learning algorithm was developed. It is far more robust to missing data than previous methods, and was shown to greatly reduce the burden for collecting a person's travel history. This makes it possible to learn an individual's travel patterns unobtrusively. These accomplishments along with previous IGERT research combine to form an overall framework for individual activity pattern learning and prediction for mobile applications.

-We studied in-network query processing in mobile peer-to-peer networks. In the transportation environment, such a network is envisioned by the US Department of Transportation (DoT) IntelliDrive initiative for querying and dissemination of safety and mobility information. In-network query processing in such an environment is challenging because (i) the network topology is highly dynamic and subjected to disconnections; and (ii) bandwidth and memory of mobile nodes are constrained. We proposed a query processing method that uses cooperative caching. It makes the data items satisfy a query flow to its originator. To cope with communication bandwidth and storage constraints, the method prioritizes the data-items in terms of their value, relative to supply and demand. Simulations based on real-life mobility traces identify the situations in which our approach outperforms a series of existing cooperative caching strategies and an existing mobile sensor network algorithm.

-The UIC Shuttle Tracker was developed as a service to the UIC community. It provides the real-time location of buses operated by the UIC Intercampus Bus Service, and for nearby CTA buses. Each moving bus is continuously classified as belonging to one of the four campus routes, or to no route at all. Finally, once a bus has been classified as belonging to a route, the program computes arrival time predictions based on historical travel times from past trips. The route classification and arrival time predictions algorithms were developed by CTS members. More statistical analysis is being gathered on the CTS bus system. Tracker in action at: <http://bus.uic.edu>

-A machine learning approach to "estimating relevance" for the emergency electronic brake light application (EBBL) was developed. The EBBL safety application works by disseminating reports about vehicles that are performing emergency deceleration in an effort to warn drivers about the need to perform emergency braking. Vehicles receiving such reports decide whether the information is relevant to the driver, warning the driver if that is the case. This collaborative work was presented at the Nets4Cars workshop, 7th IEEE and IET International Symposium on Communication Systems, Networks, Digital Signal Processing, Newcastle upon Tyne, UK and at 7th ACM International Workshop on Vehicular Inter-NETworking (VANET '10), Chicago, IL. A third paper on the EBBL safety application is accepted to the 12th IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks, WoWMoM 2011, which takes place in Lucca, Italy in June, 2011.

-CTS studied monitoring of neighboring vehicles for safety via vehicle-to-vehicle communication.

Monitoring plays a critical role in many V2V based vehicle safety applications, including Cooperative Collision Warning, Lane Change Warning, and Pre-Crash Sensing. We introduced the novel "continuous range k-nearest neighbor"(CRNN) query. A CRNN issued by a vehicle continuously monitors the locations of "k" nearest vehicles within range of the vehicle's location. The locations are plotted on the navigation system display, enabling the driver to be aware of vehicles that are not seen due to a turn, a blind spot, etc. We proposed a scheme for query processing to optimize the usage of wireless network bandwidth, computation cost, and local storage while preserving information on the continuous movement of vehicles within the broadcast range of a vehicle. Both our simulation and road test results confirmed the effectiveness and superiority of our scheme over current state-of-the-art.

-Trainees Daniel Ayala and Bo Xu of Computer Science worked with faculty members from CS and Civil and Materials Engineering on the problem of spatio-temporal matching where agents compete for spatio-temporal resources. Examples could include drivers who compete for parking spaces; taxi-cabs that compete for customers. They developed algorithms that guide an agent to the most promising resource. They also developed economic models so that the rational behavior of the agents automatically leads to minimized costs system-wide. Out-performance of naive method in which a driver always goes to the closest parking space. In some cases, the algorithms save 47% of driving distance. In a city like Chicago, this yields a reduction of over 3.9 million gallons of gasoline and over 60,000 tons of CO₂ emissions per year. Invention was disclosed to UIC, which filed for provisional patent. Commercialization efforts are underway. They also introduced two notions of resource choice: the optimal and the equilibrium. The equilibrium describes the behavior of individual, selfish agents in a system. They studied how a pricing authority can use the resource availability information to set prices that entice drivers to choose parking in the optimal way, the way that minimizes total driving distance by the vehicles and is then better for the transportation system (by reducing congestion) and for the environment. Simulations showed that the proposed pricing schemas can reduce total distance traveled by up to 23%.

-Trainee James Biagioni of Computer Science worked cooperatively with Troy Hernandez, Department of Mathematics and Statistics. Together they have developed an end-to-end framework for improving the cost efficiency of online GPS tracking systems. The system enables a trace consumer to receive a continuous and internally consistent location trace. As a result of this collaboration Troy is presenting a poster entitled "Thrifty Tracking: Smooth and Accurate Online GPS Tracing with Low Data Uplink Utilization" at the NSF annual meeting and represents CTS in the video/poster competition. James and Troy have also submitted a technical paper to the 10th ACM Conference on Embedded Networked Sensor Systems, the premier conference for research in sensor systems.

-Encouraged by his advisor to add a computer science based component to his transportation research, Karl Sturm, an IGERT fellow in Civil and Materials Engineering, utilized the computer science knowledge he obtained through the IGERT program to supplement his transportation experience. Over the past year he has extracted and preprocessed digital maps and employed map-matching algorithms to analyze the results of a GPS survey of the Chicago area. This work, as well as work with choice set algorithms, feeds into the development of a behavioral route choice model which can result in the development of better network simulators. He incorporates a wide variety of variables such as age and income into routing decisions. The development of network simulators that incorporate local driver demographics and biases into its routing mechanisms can enhance the predictions upon which local urban planning decisions are based.

-Trainee Piotr Szczurek of Computer Science worked with faculty members from CS and Civil and Materials Engineering on a platform for developing and evaluating vehicular adhoc networks (VANET) safety warning applications. Examples of such applications include the emergency electronic brake light and the highway merge warning. A major issue with such applications is the impact of false warnings, which can lessen any safety benefits the application provides. A high number of false warnings will lead to driver desensitization to the warnings, which will reduce or completely eliminate any potential safety benefits. The platform developed by Piotr and Bo can be used to evaluate received alerts in terms of their relevance for the given vehicle. The platform provides a set of tools based on the machine learning for learning and testing relevance estimation modules. Simulation evaluation verified the feasibility of using it for various VANET safety applications.

-IGERT faculty Jane Lin and her research group in the Department of Civil and Materials Engineering has worked closely with researchers in the following disciplines: Department of Computer Science, UIC Department of Urban Planning and Policy, UIC Department of Mechanical and Industrial Engineering, UIC Civil Engineering at Northwestern University, Urban Planning at City University of New York, and School of Business at Universidad Adolfo Ibañez, Santiago, Chile. Together they have published six refereed journal articles, one book chapter, eight conference proceedings and had twelve conference presentations.

-Trainee James Biagioni received a best presentation runnerup award at ACM GIS conference. Trainee Roland Varriale and associate Shuo Ma also had publications at ACM GIS accepted that highlighted their work in transportation information systems and taxi ridesharing, respectively.

-Trainee Karl Sturm of Civil and Materials Engineering worked with faculty members from Civil and Materials Engineering as well as Urban Planning and Policy on a survey of grocery trucks in Chicago, IL that is based on GPS and driver logs. In this research, 108 trip days of GPS traces were obtained and allowed for the examination of lengthy tours between warehouses, distribution centers, and stores. A descriptive analysis of these tours was presented with a focus on the spatial and temporal distributions of activities. From these data, approximately 89% of all activities were major work-based activities, and the number of activities per trip had a local maximum of three, by which 32% of all tours abided. The information gathered and presented can be used to supplement future disaggregate modeling exercises.

-Trainees Piotr Szczurek and Bo Xu worked with faculty members from Civil and Materials Engineering and CS on an observe-driver-and-learn platform for relevance estimation in VANET safety warning applications. Vehicular Ad-Hoc Network (VANET) safety warning applications aim to disseminate alerts about dangerous events on the road using wireless communication technology and warn drivers receiving such alerts when necessary. Examples include the emergency electronic brake light or the highway merge warning. A major issue with such applications is false warnings, which lessen any safety benefits the applications provide. IGERT trainers and faculty proposed a platform based on the principle of Observe-Driver-and-Learn. The core of the platform is a machine learning approach for finding relevance estimators. The platform is evaluated with a false warning adjusted safety benefit metric.

-Trainee Qin Chen worked with IGERT faculty member Jane Lin on the green vehicle routing problem considering joint effect of vehicle load and speed.

Educational Accomplishments

-Beginning with the first semester of the IGERT program, our trainees took at least one class together as a group each term. In addition to strengthening relationships between the trainees, this also enhanced the interdisciplinary aspect of their educational experiences, as each student took at least two courses outside his/her home department.

-We developed a new interdisciplinary course "Principles of Computational Transportation". The course was team taught by the PI from Computer Science, and a co-PI from Urban Planning. In this course, all students completed a technical research proposal in response to an NSF-style Call for Proposals. Their proposals contained literature reviews, plans for implementation and for testing their research results, and expected outcomes. The benefits of this exercise were twofold: 1) it gave students the opportunity to identify a research problem and describe a practical approach for its solution, and 2) it gave students the experience of writing a technical proposal based on their work to a funding agency like NSF.

-Several curriculum committee meetings were held to review the content of both new and existing courses that make up our IGERT curriculum. The syllabus of each new course was defined during these meetings of the IGERT faculty.

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-Our Trainees benefit from interdisciplinary advising. All are expected to acquire an additional adviser from outside their home departments.

-We held weekly interdisciplinary colloquium. We focused on bringing in representatives from our local and regional partner organizations, and asked speakers to address, to the extent possible, opportunities for collaboration with our students. Our fellows also presented on their research topics. Speakers represented the range of disciplines relevant to our IGERT program, and students were given opportunities to request individual or small-group meetings with our guests. The seminars are well attended, highly interactive, and stimulating. The CTS Colloquium series has proven to be an excellent tool for student development. Trainees are frequently called upon to present their research at the colloquium. Students must plan and structure their content so that they can convey the intended message. The audiences' response provides feedback as to how clearly their concepts were delivered. In addition, faculty and fellow student make suggestions to enhance presentation skills, pointing out any faulty logic and proposing alternative formats for presenting information clearly.

-The core CTS interdisciplinary course, Principles of Computational Transportation Science, was approved as a regular course cross-listed by the Computer Science, Civil Engineering, Urban Planning and Public Affairs departments. We also hired a project coordinator Ms. Geen Tomko, with an M.Sc. degree in education. One of her responsibilities is to make suggestions for innovative

interdisciplinary PhD education.

-The syllabus of CTS Principles was revised to better integrate social sciences and engineering aspects of the course. Also, IGERT trainees have enrolled in the core course offered by Urban Planning and Policy, Introduction to Urban Transportation Planning. Students, many of whom are drawn from engineering or computer science backgrounds, were taught to examine current transportation issues from a social, political, economical and historical perspective. Participation in this coursework enhances the interdisciplinarity aspects of their educational experiences and exposes them to major issues such as congestion, environmental impacts and the standard four-step urban travel forecasting process of trip generation, trip distribution, and traffic assignment and will inform their future research projects.

-The IGERT fellows developed their skills at utilizing sensor data. A large-scale database on freeway detector data and bus Automatic Vehicle Location data was put together to enable CTS Fellows to work with sensor data as a part of the course Computational Transportation Principles. This core course was developed explicitly for the hands-on training that it could provide to CTS trainees and other students interested in the field of transportation science. The database allows students to become more engaged in the analysis of data. In addition, the course Privacy/Security, Ethics, and Law was approved as a permanent offering. This uniquely interdisciplinary course offering is placed in the context of computational transportation and brings CTS Fellows from UIC together with students from the Chicago-Kent College of Law. The course is co-taught by faculty from both institutions.

-SmartStart, our external evaluator, rated CTS project components by survey information gathered from CTS faculty and trainees. The core course Urban Travel Forecasting received the highest possible rating by both students and faculty. This course has a lecture and hands-on laboratory component and builds on the fundamentals of transportation science, emphasizing its high-level computational aspects. Students comment that participation in such courses enables them to communicate with students and faculty from disciplines other than their own.

-The CTS IGERT program has enhanced the educational experience of trainees by providing frequent opportunities for them to share their research with invited colloquia speakers who have provided input and direction for future work. As a result of such opportunities, CTS Associate, Leon Stenneth was invited to work on a project with NAVTEQ. This project aims to find automated ways to test map objects. To date the selenium framework, used primarily to test web based GUI, has been extended so that it can also test map objects. This collaboration is the direct result of Leon's participation in the CTS IGERT.

-The CTS IGERT enhances the educational experience of trainees by encouraging them to gain teaching and mentoring experiences. This is an important component since many wish to pursue a career in academia. Alex Blei, Urban Planning & Policy, was a guest lecturer in Introduction to Urban Transportation, a required course in the transportation concentration, Masters of Urban Planning program, and also in the IGERT curriculum. Alex lectured on the land-use transportation nexus, presenting the topic's theoretical background, landmark studies, and overview of the current transportation-land use research. Bo Xu and Daniel Ayala, Computer Science, co-taught with O. Wolfson, IGERT PI, in the course Database Systems presenting lectures on database design and XML databases. They mentor several masters' students. Emily Mugler, BioEngineering, addressed undergraduates at her alma mater on how to get involved in research and Troy Hernandez mentored TA's in the Math and Statistics Department.

-Here are some examples of some students graduated from the IGERT-CTS program: Piotr Szczurek, Bo Xu, and Troy Hernandez. Piotr is currently an Assistant Professor in the Computer Science department of Lewis University. Bo was a Postdoctoral Appointee in Transportation Research and Analysis Computing Center at Argonne National Laboratory. His team built an extendable and interoperable agent-based transportation simulation framework. Bo also received a NSF grant "Moving Objects Databases for Exploration of Virtual and Real Environments" as a Co-PI. In this project, he worked with scientists from Florida International University, University of Illinois at Chicago, Brown University, and Northwestern University to transform the fields of computational transportation and mobile sensing by developing a universal high-performance model for information processing and fusion in mobile environment, providing a collaborative integration between the real and virtual worlds.

Major Trainee Accomplishments

-IGERT Trainee Chad Williams and his co-authors received the Best Paper Award at the IEEE Conference on E-Commerce Technology (CEC'06) for their work, "Detecting Profile Injection Attacks in Collaborative Recommender Systems."

-IGERT trainee Caitlin Cottrill was awarded a 2008 Dwight David Eisenhower Transportation Fellowship. The DDETF Program is a nationally competitive award given by the US Department of Transportation to a select small group of students each year. Caitlin's research topic, "Privacy Issues in Intelligent Transportation Systems" is a particularly new area of importance. In this age of increased surveillance and data collection, she is interested in balancing privacy and security concerns with planners' desires to improve transportation network efficiency. While the benefits of information technology within the realm of transportation are clear--real time accurate information on travel times, routes, delays and multi-modal options, and have the potential to improve quality of life for the traveling public, Caitlin is defining the impacts that increased data collection and surveillance will have on privacy.

-IGERT trainees Chad Williams (Computer Science) and Josh Auld (Civil Engineering) are jointly mentoring Patrick Wheeler, an undergraduate computer science student. Patrick develops an interactive online GPS survey for the trainees' interdisciplinary research on travel demand modeling. Personal activity-based travel analysis previously involved a significant burden of data collection. In our trainees' research, participants carry GPS logging devices and assist in the upload and interpretation of travel patterns via a new website. The website allows participants to easily upload and verify data, view their travel paths displayed on Google Earth maps, and obtain information on calories burned through pedestrian travel. In addition to developing a valuable research tool, this effort has built a mutually beneficial collaborative and mentoring relationship between the trainees and Patrick.

-One of our IGERT Trainees, Stephen Vaughn, won grant funding for "Advanced Technologies for Non-Motorized Transportation Safety and Traveler Information". He is the winner of the 2009 Transportation Research Board (TRB) Mini-Grant on Women's Travel and Personal Security and Safety.

-CTS Fellow, Chad Williams was an invited speaker at the Dagstuhl Workshop on Computational

Transportation Science held in Wadern, Germany this Spring. In addition, Chad is the first trainee to complete his PhD and the CTS IGERT training program. His interdisciplinary dissertation, "A data mining approach to rapidly learning traveler activity patterns for mobile applications", was successfully defended in April 2010. The research techniques he developed make it possible to learn an individual's travel patterns unobtrusively.

-IGERT Fellows James Biagioni, Computer Science, and Tomas Gerlich, Computer Science, have worked with Dr. Jakob Eriksson to develop the TransitGenie, an iPhone app that enables Chicagoans to navigate on the local buses and trains in real-time. The application calculates the best combination of buses, subway, or metra trains to get to a user's destination the fastest way. The project involved the possibility of users themselves providing the real-time information of buses and trains back to the system by means of GPS tracking of the vehicles. Prior to its being made available to the public, James and Tomas demonstrated the TransitGenie at the 7th ACM Conference on Embedded Networked Sensor Systems held in Berkeley, CA (2009).

-CTS Fellow, Caitlin Cottrill, Urban Planning, is a member of Women in Transportation-Chicago Chapter organization whose focus is promoting the development and advancement of women in Chicago, one of the nation's largest transportation hubs. Caitlin was nominated for and awarded the Helene M. Overly Memorial Graduate Scholarship, 2010 for excellence. Caitlin has also received a travel award to attend the 10th Privacy Enhancing Technologies Symposium (PETS) held in Berlin, Germany. The symposium brings together experts in anonymity and privacy from around the world to discuss recent advances and new perspectives in privacy for the Internet and other communication networks.

-CTS Fellow, Emily Mugler, BioEngineering, won the "award for innovation" at the International Brain-Computer-Interface 2010 workshop for her poster, "Development of a laryngeal surface electromyographic biofeedback system for an efficient neurally-controlled communication interface". Emily's research focuses on brain-computer interface (BCI) technology as a potentially powerful new communication tool for transportation. Since passing her preliminary exams, Emily has been collecting data for publication and has started to collaborate with local scientists in other disciplines to further advance her research and its applications.

-Mahmoud Javanmardi, Civil Engineering, developed an integrated travel and demand modeling system by tightly integrating one existing model, ADAPTS, with another model, TRANSIM. Unlike other integrated models, this new and unique demand model is not only aware of state/positions of agents, but also can change/cancel/create current and future plans during simulation. As his research progressed, Mahmoud realized that existing software packages were inadequate for his needs. He modified the TRANSIMS router and Microsimulator code to meet his software needs. The interdisciplinary aspects of the IGERT program provided the foundation he needed to connect the two modeling system to work together. The result is a totally novel model that will be used as an advanced platform for testing various policies including dynamic pricing policies and more accurately estimating vehicles emission.

-Trainee James Biagioni's work on the Easy Track app, which is available for free to users of iPhones, resulted in a best presentation award at ACM SenSys 2011 held in Seattle. His poster, entitled "Easy Tracker: Automatic Transit Tracking, Mapping and Arrival Time Prediction Using Smartphones", won second place at the UIC Student Research Forum presentations. In addition, James was nominated for and won the highly prestigious Dean's Scholar Award for research. This award provided funding for James in the 2012-2013 academic year.

-Daniel Ayala's research compares vehicular parking to a game in which vehicles (players) can be viewed as competing for parking slots (resources with different costs). Using this idea of competition, he developed a game-theoretic framework to analyze parking situations using algorithms that choose parking slots ideally in competitive parking simulations. He also developed algorithms for incomplete information contexts and showed how these algorithms even outperform algorithms with complete information in some cases. Daniel was invited to present his paper at the MDM conference being held in India.

-During the Summer term of 2012 James Biagioni conducted a productive internship at Microsoft Research (MSR) in Redmond, WA. James and his mentor, Dr. Krumm, articulated and performed a research project whose goal was to model how individuals assess the similarity of their daily activity patterns based entirely on recorded GPS location traces. To achieve this goal, they conducted a 30-person user-study where the GPS traces of subjects were logged and the subjects were interviewed by James and Dr. Krumm with the user of specially designed software. They then compared human-centered subjective similarity evaluations against those of objective trajectory similarity algorithms from the literature. They found 2 that worked better than the rest for the purposes of modeling human assessments of daily activity pattern similarity. They authored based on this work which has been accepted by a conference. James is the winner of the Dean's Scholar Award.

-Trainee Shuo Ma's paper won best paper runner up at the 29th IEEE International Conference on Data Engineering (2013), ICDE'13. ICDE is a prestigious and highly competitive conference in computer science. The paper, titled "T-share: A large-scale dynamic ridesharing service", is a joint work during his internship with Yu Zheng in Microsoft and Shuo's advisor Ouri Wolfson. In the paper, they formally define the dynamic ridesharing problem and present a large-scale taxi ridesharing service, which efficiently serves real-time requests sent by taxi users and generates ridesharing schedules that reduce the total travel distance significantly. Tested with extensive experiments, their approach demonstrates its efficiency, effectiveness, and scalability. For example, the proposed service can serve 40% additional taxi users while saving 15% travel distance over no ridesharing (when the ratio between the number of queries and the number of taxis is 5)

-James Biagioni received the best presentation runner-up award for his short paper, "Thrifty tracking: online GPS tracking with low data uplink usage" at the ACMGIS conference. James' work presented a way of utilizing a smartphones' sensors to enhance tracking capabilities while keeping low battery usage and low data usage in mind. James also presented his work on map creation using GPS traces as the subject of a Google Talk that is published on their site.

-Shuo Ma was an intern at Nokia at the Chicago location. This is an invaluable opportunity where he can share ideas and gain further knowledge on the practical applications of the concepts obtained through the CTS-IGERT program.

Accomplishments from the International Component

-Our trainees were allocated budget specifically to support international experiences. Most of these experiences take the form of 1-2 months internships at foreign universities or laboratories. Trainees work with their advisers and other IGERT faculty to identify possible sites and make connections

with potential hosts. Their individual research plans are also informed by their advisers and hosts. Upon their return from international research experiences, we require trainees to prepare a summary of their activities for posting on our website and sharing with other IGERT personnel.

-Students are afforded the ability to attend and present their research at international events. This increases the students' ability to present their work to a diverse audience and may offer different dynamics than presenting only to researchers from within their own country. This also allows the students to build relationships with scientists from all reaches of the globe, creating a more expansive network of connections from the students to draw from.

-Most of our IGERT Associates are international students. Some are full-time international PhD students at our university, working on research related to our IGERT. Others are visiting scholars from international universities. As Associates, these scholars interact with our Trainees and IGERT faculty through attendance and presentations at seminars, collaboration on research, and participation in other IGERT-related activities. The work of our visiting international scholars can be extended beyond their departures by our trainees and/or by continued collaboration with our IGERT personnel.

-Our weekly seminar series includes presentations from international experts, many of whom represent our designated international partner institutions (i.e. places where students may choose to intern).

-Trainee Doug Lundquist traveled to Ecole Polytechnique Fédérale de Lausanne for his international experience. Dr. Karl Aberer of EPFL was hosting this visit. Doug tested the routing protocol he and his advisor Dr. Aris Ouksef created, Self-Balancing Supply/Demand (SBSD), with a number of realistic mobility modules within the JiST/SWANS simulation platform. EPFL has extensive experience with testing routing protocols for vehicular ad hoc networks and has developed the TraNS integrated traffic and network simulator. The goal of this partnership is to assess the performance of SBSB under more realistic conditions and identify ways it can be more closely fitted to the urban environment. Beyond that, the capacity of SBSB to deliver information will suggest appropriate categorization schemes, packet sizes, and functions for the optimal size and duration of subscription propagation areas based on traffic conditions.

-National Information and Communications Technology Australia (NICTA) hosted trainee Caitlin Cottrill's international experience. Caitlin's work focused on NICTA's Smart Transport and Roads (STaR) project, its largest ITS initiative. She investigated surveillance techniques and their relationships to travel behavior, and Australian privacy regulations with regards to Intelligent Transportation Systems. Through her work at NICTA, Caitlin will gain a better understanding of the following research questions: 1. To what extent is ITS surveillance potentially invasive? 2. What technology is currently utilized for surveillance, and is it being used to the limit of its capability? 3. What potential impacts does surveillance have on traveler behavior? As a result of the completion of her internship, further relations have developed between NICTA and CTS/IGERT. A memorandum of understanding has been signed between the University and NICTA. It enables scientific exchanges and collaborations.

-An international component available to participants in the CTS program is the opportunity to participate in conferences and workshops. This component provides trainees with exposure to variations in research infrastructure and culture, as well as establishing professional contacts and collaboration outside the United States. Presentations of posters and seminars at international conferences also introduce students to future career advancement and collaboration opportunities

while they advance the state of knowledge within our emerging discipline.

-Trainees experienced first hand the impact of cultural and regulatory differences on their research. For example, Caitlin Cottrill worked on privacy issues. These differ depending on the country, and her collaboration with Australian researchers gave her research a broader perspective. The existing research relationships were also strengthened through return visits. For example, trainee Doug Lundquist returned to Switzerland to run simulations and extend the collaboration with partners at Ecole Polytechnique Federale de Lausanne.

-Another international component is the collaboration of trainees with international researchers on written papers. IGERT fellows Chad Williams and Bo Xu participated in writing a joint workshop report as a result of the Germany Dagstuhl seminar. IGERT fellow Josh Auld published two journal papers with Dr. Sean T. Doherty from Wilfrid Laurier University (Canada) and one journal paper with Dr. Matthew J. Roorda from University of Toronto (Canada).

-The University of Illinois at Chicago attracts many talented visiting scholars from abroad. The CTS program hosts some of these visitors. They participate in the research and social aspects of the program, including the orientation and weekly colloquium series. For example, the CTS program hosted Jose Antonio Mandejar, a professor from Spain, who spent a one year sabbatical with the program. He also participated regularly in the Principles of CTS course given by PI Wolfson and co-PI Thakuria, adding an interesting European perspective to the course.

-CTS Fellows Chad Williams and Bo Xu were invited to participate in the Dagstuhl Workshop on Computational Transportation Science that was held in Wadern, Germany in March 2010. At this week long event they worked with experts from computer science, geographic information science, intelligent transportation systems, computer graphics and cognitive science in sessions dedicated to brainstorming and interdisciplinary discussions. They met and interacted with many scientists of the international research community, and took part in shaping the field of computational transportation science.

-Josh Auld, a CTS Fellow, participated in an extended internship in Toronto, Canada. As a senior student, He was travelling and presenting his research at international symposia. Josh attended the 12th International Conference on Travel Behavior Research and presented a talk entitled Activity planning processes in the ADAPTS Activity-based modeling framework. His research was published in the conference proceedings.

-CTS Fellow, Mahmoud Javanmardi, attended a workshop in Berlin, Germany for 4 days. A member of the Mohammadian Laboratory, Civil and Materials Engineering, he worked on congestion-pricing through the integration of activity based models with dynamic traffic assignment models. The workshop provided training in MATsim a well known model. Utilizing the training he received Mahmoud will use the MATsim network simulator function to integrate this program into the ADAPTS model that has been developed by the Mohammadian Laboratory.

-CTS Fellow, Caitlin Cottrill participated in the Privacy Enhancing Technologies (PETs) Symposium which brings together anonymity and privacy experts from around the world to discuss recent advances and new perspectives in privacy for the Internet and other communication networks.

-CTS trainee Bo Xu attended the 2011 IEEE International Conference on Vehicular Electronics and Safety in Beijing, China, where he presented a paper. Over a period of 1 month, Bo had the opportunity to visit several academic institutions including the University of Electronic Science &

Technology of China, Sichuan University, and Shanxi Normal University. He delivered lectures at each and studied research issues with their faculty. As a result, Prof. Xianggang Zhang, University of Electronic Science and Technology of China, became a visiting research scientist at the University of Illinois at Chicago hosted by Dr. Ouri Wolfson, PI, CTS IGERT. In addition, Professor Dawei Guo of Shanxi Normal University, also visited us.

-During the winter semester, 2011, Bo Xu traveled to Lille, France where he presented a paper. He remained in France where he worked on autonomous driving and wrote a technical report with Dr. Thierry Delot. He also had the opportunity to deliver lectures at the both the University of Valenciennes and at The National Institute for Research in Computer Science and Control(INRIA). As a result, Thierry Delot of the University of Valenciennes (UVHC) and INRIA has participated in the submission of a PIRE full grant proposal to NSF. Dr. Delot is as the leader of our international partnership at the UVHC research site.

-Trainee Piotr Szczurek presented a research paper "Intelligent Transportation Systems: When is Safety Information Relevant?" at the WoWMoM'11 conference held in Lucca, Italy. He also demonstrated his research there. Ideas and feedback that he received at that demo led to an extension of the work which is published in the journal IEEE Transactions on Intelligent Transportation Systems.

-Trainee Shuo Ma did internship with Microsoft Asia Research in Beijing, China during the summer of 2012. He collaborated with Yu Zheng in Microsoft and adviser Ouri Wolfson. They published a paper in the 29th IEEE International Conference on Data Engineering, a prestigious and highly competitive conference. The paper won best paper runner up.

IGERT Project Personnel and Trainees

Principal Investigator(s)

Name: Ouri Wolfson

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2014-2015

Co-Principal Investigator(s) or Trainee/Associate Advisor(s)

Name: Khokhar A. Ashfaq

Project Years Active: 2008-2009, 2009-2010, 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Jezekiel Ben-Arie

Project Years Active: 2009-2010, 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Isabel F. Cruz

Project Years Active: 2008-2009, 2009-2010, 2010-2011

Role in Project: Trainee/Associate Advisor

Name: Bhaskar DasGupta

Project Years Active: 2011-2012, 2012-2013, 2014-2015, 2015-2016

Role in Project: Trainee/Associate Advisor

Name: Barbara DiEugenio

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Jakob Eriksson

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014

Role in Project: Trainee/Associate Advisor

Name: Kazuya Kawamura

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014

Role in Project: Trainee/Associate Advisor

Name: Jane Lin

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015

Role in Project: Trainee/Associate Advisor

Name: Abolfazl Mohammadian

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015

Role in Project: Trainee/Associate Advisor

Name: Peter C. Nelson

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Aris M. Ouksel

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

Role in Project: Co-PI and Trainee/Associate Advisor

Name: James Patton

Project Years Active: 2010-2011, 2011-2012, 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Prasad Sistla

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

Role in Project: Trainee/Associate Advisor

Name: Robert H. Sloan

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2014-2015

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Piyushimita Thakuriah

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013

Role in Project: Co-PI and Trainee/Associate Advisor

Name: Curtis Winkle

Project Years Active: 2010-2011

Role in Project: Trainee/Associate Advisor

Name: Jie Yang

Project Years Active: 2010-2011, 2011-2012, 2014-2015

Role in Project: Trainee/Associate Advisor

Name: Philip Yu

Project Years Active: 2010-2011, 2011-2012, 2012-2013

Role in Project: Trainee/Associate Advisor

Trainees

Name: Joshua A. Auld

Total number of months funded: 30

Project Years Active:

2006-2007 Project Year - Trainee supported for 0 months

2007-2008 Project Year - Trainee supported for 5 months

2008-2009 Project Year - Trainee supported for 10 months

2009-2010 Project Year - Trainee supported for 12 months

2010-2011 Project Year - Trainee supported for 3 months

Name: Daniel Ayala

Total number of months funded: 83

Project Years Active:

2007-2008 Project Year - Trainee supported for 10 months

2008-2009 Project Year - Trainee supported for 10 months

2009-2010 Project Year - Trainee supported for 12 months

2010-2011 Project Year - Trainee supported for 12 months

2011-2012 Project Year - Trainee supported for 12 months

2012-2013 Project Year - Trainee supported for 12 months

2013-2014 Project Year - Trainee supported for 12 months

2014-2015 Project Year - Trainee supported for 3 months

2015-2016 Project Year - Trainee supported for 0 months

Name: James P. Biagioni

Total number of months funded: 46

Project Years Active:

2007-2008 Project Year - Trainee supported for 10 months

2008-2009 Project Year - Trainee supported for 12 months

2009-2010 Project Year - Trainee supported for 12 months

2010-2011 Project Year - Trainee supported for 12 months

2011-2012 Project Year - Trainee supported for 0 months

2012-2013 Project Year - Trainee supported for 0 months

2013-2014 Project Year - Trainee supported for 0 months

Name: Alejandro M. Blei

Total number of months funded: 21

Project Years Active:

2010-2011 Project Year - Trainee supported for 0 months

2011-2012 Project Year - Trainee supported for 9 months

2012-2013 Project Year - Trainee supported for 12 months

2014-2015 Project Year - Trainee supported for 0 months

2015-2016 Project Year - Trainee supported for 0 months

Name: Joel A. Booth

Total number of months funded: 32

Project Years Active:

2006-2007 Project Year - Trainee supported for 0 months

2007-2008 Project Year - Trainee supported for 5 months

2008-2009 Project Year - Trainee supported for 12 months

2009-2010 Project Year - Trainee supported for 12 months

2010-2011 Project Year - Trainee supported for 3 months

2011-2012 Project Year - Trainee supported for 0 months

Name: Qin Chen

Total number of months funded: 19

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months

2013-2014 Project Year - Trainee supported for 10 months

Name: Caitlin D. Cottrill

Total number of months funded: 22

Project Years Active:

2006-2007 Project Year - Trainee supported for 10 months

2007-2008 Project Year - Trainee supported for 12 months

2008-2009 Project Year - Trainee supported for 0 months

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 0 months

Name: Tomas Gerlich

Total number of months funded: 24

Project Years Active:

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 10 months

2011-2012 Project Year - Trainee supported for 9 months

2012-2013 Project Year - Trainee supported for 0 months

2014-2015 Project Year - Trainee supported for 5 months

2015-2016 Project Year - Trainee supported for 0 months

Name: Qing Guo

Total number of months funded: 12

Project Years Active:

2014-2015 Project Year - Trainee supported for 12 months

2015-2016 Project Year - Trainee supported for 0 months

Name: Troy A. Hernandez

Total number of months funded: 24

Project Years Active:

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 12 months

2011-2012 Project Year - Trainee supported for 12 months

2012-2013 Project Year - Trainee supported for 0 months

Name: Mahmoud Javanmardi

Total number of months funded: 21

Project Years Active:

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 12 months

2011-2012 Project Year - Trainee supported for 9 months

2012-2013 Project Year - Trainee supported for 0 months

2013-2014 Project Year - Trainee supported for 0 months

2014-2015 Project Year - Trainee supported for 0 months

Name: Katya I. Kisyova

Total number of months funded: 22

Project Years Active:

2007-2008 Project Year - Trainee supported for 10 months

2008-2009 Project Year - Trainee supported for 12 months

Name: Yosef G. Lifshits

Total number of months funded: 15

Project Years Active:

2006-2007 Project Year - Trainee supported for 10 months

2007-2008 Project Year - Trainee supported for 5 months

Name: Doug E. Lundquist

Total number of months funded: 27

Project Years Active:

2006-2007 Project Year - Trainee supported for 10 months

2007-2008 Project Year - Trainee supported for 12 months

2008-2009 Project Year - Trainee supported for 5 months

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 0 months

Name: Arun S. Maiya

Total number of months funded: 7

Project Years Active:

2007-2008 Project Year - Trainee supported for 7 months

Name: Emily M. Mugler

Total number of months funded: 24

Project Years Active:

2009-2010 Project Year - Trainee supported for 0 months

2010-2011 Project Year - Trainee supported for 12 months
2011-2012 Project Year - Trainee supported for 12 months
2012-2013 Project Year - Trainee supported for 0 months

Name: Karl E. Sturm

Total number of months funded: 17

Project Years Active:

2010-2011 Project Year - Trainee supported for 5 months
2011-2012 Project Year - Trainee supported for 12 months
2012-2013 Project Year - Trainee supported for 0 months
2013-2014 Project Year - Trainee supported for 0 months

Name: Piotr M. Szczurek

Total number of months funded: 63

Project Years Active:

2006-2007 Project Year - Trainee supported for 10 months
2007-2008 Project Year - Trainee supported for 12 months
2008-2009 Project Year - Trainee supported for 12 months
2009-2010 Project Year - Trainee supported for 12 months
2010-2011 Project Year - Trainee supported for 5 months
2011-2012 Project Year - Trainee supported for 12 months
2012-2013 Project Year - Trainee supported for 0 months

Name: Roland B. Varriale II

Total number of months funded: 21

Project Years Active:

2012-2013 Project Year - Trainee supported for 9 months
2013-2014 Project Year - Trainee supported for 12 months

Name: Stephen T. Vaughn

Total number of months funded: 24

Project Years Active:

2008-2009 Project Year - Trainee supported for 10 months
2009-2010 Project Year - Trainee supported for 12 months
2010-2011 Project Year - Trainee supported for 2 months

Name: Chad A. Williams

Total number of months funded: 43

Project Years Active:

2006-2007 Project Year - Trainee supported for 10 months
2007-2008 Project Year - Trainee supported for 12 months
2008-2009 Project Year - Trainee supported for 12 months
2009-2010 Project Year - Trainee supported for 9 months

Name: Bo Xu

Total number of months funded: 29

Project Years Active:

2009-2010 Project Year - Trainee supported for 5 months
2010-2011 Project Year - Trainee supported for 12 months
2011-2012 Project Year - Trainee supported for 12 months

Associates

Name: Hyung-Ju Cho

Project Years Active: 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Peng Fan

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: James G. Haran

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Yan Luo

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Shuo Ma

Project Years Active: 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Xinzheng Niu

Project Years Active: 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Leon O. Stenneth

Project Years Active: 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Masaaki Tanizaki

Project Years Active: 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Matteo Vigano

Project Years Active: 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Ting Zhong

Project Years Active: 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Name: Xinjuan Zhu

Project Years Active: 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

Publications, Presentations, and Patents

Journal Articles in Refereed Publications

Mohammadian, Abolfazl and Doherty, Sean T. (2006) Modeling Activity Scheduling Time Horizon: Duration of Time between Planning and Execution of Pre-Planned Activities, *Journal of Transportation Research*, 40(6), 475-490.

Murata, T; Yim, J; Yin, H; and Wolfson, Ouri. (2007) Petri-Net Model and Minimum Cycle Time for Updating Moving Objects Database, *The International Journal of Computer Systems Science and Engineering*, 21(3), 207-213.

Cao, H; Wolfson, Ouri; and Trajcevski, G. (2006) Spatio-Temporal Data Reduction with Deterministic Error Bounds, *The VLBD Journal*, 15(3), 211-228.

Sturm, K.*, Pourabdollahi, Z., Mohammadian, A. K., & Kawamura, K. (2014). GPS and Driver Log-Based Survey of Grocery Trucks in Chicago, Illinois. *Transportation Research Record: Journal of the Transportation Research Board*, 2410(1), 31-38.

Zheng, Y., Capra, L., Wolfson, O., & Yang, H. (2014). Introduction to the special section on Urban computing. *ACM Transactions on Intelligent Systems and Technology*, 5(3), 37.

Zheng, Y., Capra, L., Wolfson, O., & Yang, H. (2014). Urban computing: concepts, methodologies, and applications. *ACM Transactions on Intelligent Systems and Technology*, 5(3), 38.

Sistla, A. P., Wolfson, O., & Xu, B.* (2014). Continuous nearest-neighbor queries with location uncertainty. *The International Journal on Very Large Data Bases*, 1-26.

Ma, S., Zheng, Y., & Wolfson, O. (2014). Real-Time City-Scale Taxi Ridesharing. *IEEE Transactions on Knowledge and Data Engineering*, PP(99), 1-14.

Sloan, R. H., & Warner, R. (2014). Beyond notice and choice: Privacy, norms, and consent. *Suffolk University Journal of High Technology Law*, 14, 370-C412.

Warner, R., & Sloan, R. H. (2014). Self, Privacy, and Power: Is It All Over?. *Tulane Journal of Technology & Intellectual Property*, 17, 61-107.

Chen, Q.*, E. Adida, J. Lin, (2013) An Investigation in Real-time Bus Holding Policy, *Public Transport*, Vol.4 (3): 165-186

Li, Q., Nie, Y. M., Vallamsundar, S., Lin, J., & Homem-de-Mello, T. (2014). Finding Efficient and Environmentally Friendly Paths for Risk-Averse Freight Carriers. *Networks and Spatial Economics*, 1-21.

Lin, J., Chen, Q.*, Kawamura, K. (2014). Economic and Environmental Analyses of Urban Delivery Consolidation Strategies, Networks and Spatial Economics, April 2014, DOI 10.1007/s11067-014-9235-9

Zhou, Z. L. Li, J. Lin (2013) Integrated Analytical Modeling for Production Systems Coupled with Material Handling Systems, IEEE Transactions on Systems, Man and Cybernetics: Systems, available On-line First, DOI 10.1109/TSMC.2013.2292569

Samimi, A., A. Mohammadian, and K. Kawamura. [2013] A nationwide web-based freight data collection, Canadian Journal of Civil Engineering 40:2 114-120

Wolfson, O., & Xu, B.* (2014) A New Paradigm for Querying Blobs in Vehicular Networks, IEEE Multimedia, Vol. 21(1), Jan-Mar. 2014, pp. 48-58.

Auld, J.A.*, & Mohammadian., A., (2012) “Activity Planning Processes in the Agent-based Dynamic Activity Planning and Travel Scheduling (ADAPTS) Model”, in Transportation Research Part A: Policy and Practice, volume 46, issue 8, pp. 1386 – 1403, 2012 DOI: 10.1016/j.tra.2012.05.017.

Biagioni, J.* & Eriksson, J. (2012) "Inferring Road Maps from GPS Traces: Survey and Comparative Evaluation". Transportation Research Record: Journal of the Transportation Research Board, issue 2291, pp. 61-71, ISSN: 0361-1981, ISBN: 9780309223355.

Chen, Q.*, Adida, E., Lin, J., Implementation of a Real-time Bus Holding Strategy. Journal of Public Transport, Vol 4, Issue 3, pp 165-186, 2013, DOI: 10.1007/s12469-012-0057-1.

Chen, Q.*, Lin, J., Kawamura, K. a comparison between Urban Cooperative Delivery and Direct Delivery strategies. Journal of Transportation Research Record, Vol 2288, 2012, pp 28-39, DOI: 10.3141/2288-04.

Karimi, B., Rashidi, T., Mohammadian, A., Sturm, K.*, (2012) “Young-old elderly and baby boomers: explanatory analysis on activity duration, time-of-day choice, and planning time horizons”. in Transportation Research Record: Journal of the Transportation Research Board, No. 2322, pp. 51-59, 2012.

Ouksel, A., & Lundquist, D.* (2012). A Context-Aware Cross-Layer Broadcast Model for Ad Hoc Networks. Procedia Computer Science, Vol. 10, 517-524, DOI: 10.1016/j.procs.2012.06.066.

Rashidi, T.H., Auld, J.*, & Mohammadian, A., (2012) “A behavioral housing search model: Two-stage hazard-based and multinomial logit approach to choice-set formation and location selection”, in Transportation Research Part A: Policy and Practice, volume 46, issue 7, pp. 1097 – 1107, 2012, DOI: 10.1016/j.tra.2012.01.007.

Rashidi, T.H., & Mohammadian, A. (2013) “Behavioral Housing Search Choice Set Formation: A Spatial Hazard-Based Screening Model”, International Regional Science Review.

doi:10.1177/0160017612461356., 2013.

Ruan, M., J. Lin, K. Kawamura (2012) Modeling Commercial Vehicle Daily Tour Chaining, *Transportation Research Part E: Transportation Review and Logistics* 48: 1169-1184, DOI: 10.1016/j.tre.2012.06.003.

Samimi, A., Mohammadian, A., & Kawamura, K. (2013) "A Nationwide Web-Based Freight Data Collection", in *Canadian Journal of Civil Engineering*, 40(2), pp. 114-120, 2013, DOI: 10.1139/cjce-2011-0555.

Szczurek, P.*, B. Xu, O. Wolfson, J. Lin (2012) Estimating Relevance for the Emergency Electronic Brake Light Application, *IEEE Transactions on Intelligent Transportation Systems*, Vol 13 (4): 1638-1656, DOI: 10.1109/TITS.2012.2201257, ISSN: 1524-9050.

Tang, L., and Thakuriah, P. (2012) Ridership effects of real-time bus information system: a case study in the city of Chicago. *Transportation Research Part C: Emerging Technologies*, 22 . pp. 146-161.(doi:10.1016/j.trc.2012.01.001)

Thakuriah, P., P. Metaxatos, J. Lin, E. Jensen (2012), An examination of factors affecting propensities to use bicycle and pedestrian facilities in suburban locations, *Transportation Research Part D: Transportation and the Environment*, Vol.17 (4): 341-348, DOI: 10.1016/j.trd.2012.01.006

Thakuriah, P., Persky, J., Soot, S., and Sriraj, P. (2013) Costs and benefits of employment transportation for low-wage workers: An assessment of job access public transportation services. *Evaluation and Program Planning*, 37 . pp. 31-42. ISSN 0149-7189 (doi:10.1016/j.evalproplan.2012.11.004)

Thakuriah, P., Metaxatos, P., Lin, J., and Jensen, E. (2012) An examination of factors affecting propensities to use bicycle and pedestrian facilities in suburban locations. *Transportation Research Part D*, 17 (4). pp. 341-348.(doi:10.1016/j.trd.2012.01.006)

Thakuriah, P., and Tilahun, N. (2012) Incorporating weather information into real-time speed estimates: comparison of alternative models. *Journal of Transportation Engineering* . ISSN 0733-947X(doi:10.1061/(ASCE)TE.1943-5436.0000506)

Vallamsundar, S., J. Lin (2012) MOVES and AERMOD Used for PM2.5 Conformity Hot-Spot Air Quality Modeling, *Journal of Transportation Research Board*, No. 2270: 39-48, ISBN: 9780309223133, DOI: 10.3141/2270-06

Angel, S., Parent, J., Civco, D. L., Blei, A. M.*, & Potere, D. (2011). The dimensions of

global urban expansion: Estimates and projections for all countries, 2000-2050. *Progress in planning* 75(2) 2011.

Auld, J. *, Rashidi, T. H., Javanmardi, M. * , & Mohammadian, A. (2011). Dynamic activity generation model using a competing hazard formulation. *Transportation Research Record: Journal of the Transportation Research Board*, Volume 2254 / 2011, 28-35.

Auld, J. *, & Mohammadian, A. Planning-constrained destination choice in activity-based model: agent-based dynamic activity planning and travel scheduling. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2254, 170-179.

Auld, J. *, Mohammadian, A., & Nelson, P. (2011). Empirical analysis of the activity planning process. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2231, 76-84.

Cottrill, C. *, & Thakuriah, P. (2011). Protecting location privacy. Policy evaluation. *Transportation Research Record, Journal of the Transportation Research Board*, No. 2215, 67-74.

Doherty, S. T., & Mohammadian, A. (2011). The validity of using activity type to structure tour-based scheduling models. *Transportation*, Volume 38, No 1, 2011, 45-63.

Frignani, M., Auld, J. *, & Mohammadian, A. (2011). Empirical analysis of the decision-making and tour formation process: Comparison between seniors and younger individuals. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2231, 27-34.

Rashidi, T. H., & Mohammadian, A. (2011). Household travel attributes transferability analysis: Application of hierarchical rule based approach. *Transportation*, Volume 38, No 4, 697-714.

Rashidi, T. H., & Mohammadian, A. (2011). A dynamic hazard-based system of equations of vehicle ownership with endogenous long-term decision factors incorporating group decision making. *Journal of Transport Geography*, Volume 19, Issue 6, 1072-1080.

Rashidi, T. H., & Mohammadian, A. (2011). A competing hazard model of household vehicle transaction behavior with discrete time intervals and unobserved heterogeneity. *Journal of Transportation Letters: The International Journal of Transportation Research*. 3(3), 219-229.

Rashidi, T. H., Mohammadian, A., & Koppelman, F. (2011). Modeling interdependencies between vehicle transaction, residential relocation and job change. *Transportation*, Vol. 38, No. 6, 909-932.

Rashidi, T. H., & Mohammadian, A. (2011). Parametric hazard functions: Overview, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2230, 48-57.

Rashidi, T. H., Auld, J. *, & Mohammadian, A. (2012). A behavioral housing search model:

Two-stage hazard-based and multinomial logit approach to choice-set formation and location selection. *Transportation Research Part A: Policy and Practice*. DOI: 10.1016/j.tra.2012.01.007.

Samimi, A., Kawamura, K., & Mohammadian, A. (2011). A behavioral analysis of freight mode choice decisions, *Journal of Transportation Planning and Technology*, Vol. 34 (8), 857-869.

Szczurek, P.*, Xu, B.*, Wolfson, O., Lin, J. (2011). Estimating relevance for the emergency electronic brake light application. *IEEE Transactions on Intelligent Transportation Systems*. DOI: 10.1109/TITS.2012.220125.

Tang, L., & Thakuriah, P. (2011). Will the psychological effects of real-time transit information systems lead to ridership gain? *Transportation Research Record, Journal of the Transportation Research Board*, No. 2216, 67-74.

Tang, L., & Thakuriah, P. (2012). Ridership effects of CTA bus tracker system. *Transportation Research - Part C: Emerging Technologies*, Vol. 22, 146-161.

Thakuriah, P., Soot, S., Cottrill, C.*, Tilahun, N., Blaise, E., & Vassilakis, W. (2011). Integrated and continuing transportation services for seniors: Case studies of New Freedom Program. *Transportation Research Record, Journal of the Transportation Research Board*, No. 2265, 161-169.

Thakuriah, P. (2011). Variations in employment transportation outcomes: Role of site level factors. *Papers in Regional Science*, Vol. 90, No. 4, 755-772.

Thakuriah, P. (2011). Analysis of cost-effectiveness of employment transportation services. *Transportation Research Record, Journal of the Transportation Research Board*, No. 2217, 55-62.

Thakuriah, P., Tang, L., & Vassilakis, W. (2011). Spatio-temporal effects of real-time bus arrival time information. *Association for Computing Machinery (ACM) SIGSPATIAL GIS*, 6-11.

Thakuriah, P., Metaxatos, P., Lin, J., & Jensen, E. (2012). An examination of factors affecting propensities to use bicycle and pedestrian facilities in suburban locations. *Transportation Research Part D: Transportation and the Environment*, Vol.17 (4), 341-348.

Thakuriah, P., Metaxatos, P., Lin, J., & Jansen, J. (2012). Factors affecting propensity to use bicycle and pedestrian facilities in suburban locations. *Transportation Research - Part D: Transport and Environment*, Vol. 17, 341-348.

Vallamsundar, S. & Lin, J. (2011). MOVES versus MOBILE: A comparison of GHG and Criteria Pollutant Emissions. *Transportation Research Record: Journal of Transportation Research Board*, No. 2233, 27-35.

Wolfson, O., Sistla, P. & Xu, B.*, (2012). Information search and processing in Intelligent

Transportation Systems, invited paper, special issue on "Data Management for Vehicular Networks" of Transportation Research Part-C (Emerging Technologies), Issue 23C, doi:10.1016/j.trc.2012.02.002 Elsevier, 3-13.

5a. Journal Articles in Refereed Publications

Auld, J.*, & Mohammadian, A. (2010). Efficient methodology for generating synthetic populations with multiple control levels. *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2175, TRB, National Research Council, Washington D.C., 138-147.

Barnum, D. T., Gleason, J. M., Hemily, B., Lin, J., & Wang, P. (2010). Estimating DEA confidence intervals using panel data analysis. *Journal of the Operational Research Society* 61 (10), 1548-1555.

Cottrill, C.*, & Thakuriah, P. (2010). Evaluating pedestrian crashes in areas with high low-income or minority populations. *Accident Analysis and Prevention*, Elsevier, Vol. 42, Issue 6, 1718-1728.

Doherty, S. T., & Mohammadian, A. (2010). The validity of using activity type to structure tour-based scheduling models. *Transportation*, Vol 38, No 1, 45-63.

Frignani, M. Z., Auld, J.*, Mohammadian, A., Williams, C. A., & Nelson, P. (2010). Urban travel route and activity choice survey: Internet-based prompted recall activity travel survey using global positioning system data. *Transportation Research Record: Journal of the Transportation Research Board*, Vol 2183, 19-28.

Ghica, O., Trajcevski, G., Wolfson, O., Buy, U., Scheuermann, P., Zhou, F., Vaccaro, D. (2010). Trajectory data reduction in wireless sensor networks, *International Journal of Next-Generation Computing (IJNGC)*, 1(1).

Javanmardi, M.*, Rashidi, T. H., & Mohammadian, A. (2010). Household travel data simulation tool: Software and its applications for impact analysis. *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2183, 9-18.

Long, L., Lin, J., & Proussaloglou, K. (2010). Investigating contextual variability in mode choice using hierarchical mixed logit model. *Urban Studies* 47(11), 2445-2459.

Mohammadian, A., Javanmardi, M.*, & Zhang, Y. (2010). Synthetic household travel survey data simulation. *Transportation Research Part C*, Vol. 18, Issue 6, 869-878.

Ouksel, A., & Zoubeyr, F. (2010). Backward validation of communicating complex state machines in web services environments. *Journal Distributed and Parallel Databases*, 27(3), 255-270.

Ouksel, A., & Lundquist, D.* (2010). Demand-driven publish/Subscribe in mobile environments, *Wireless Networks (WINET)* 16(8), 2237-2261.

Rashidi, T. H., Mohammadian, A., & Zhang, Y. (2010). Effects of variation in household sociodemographics, lifestyles, and built environment on travel behavior. *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2156, 64-72, TRB, National Research Council, Washington D.C.

Ruan, M., & Lin, J. (2010). A synthesis framework for generating county level freight data using public sources for spatial autocorrelation analysis. *Transportation Research Record: Journal of Transportation Research Board*, No. 2160, 151-161.

Samimi, A., & Mohammadian, A. (2010). Health impacts of urban development and transportation systems. *ASCE Journal of Urban Planning and Development*, Vol 136, Issue 3, 208-213.

Szczurek, P.*, Xu, B.*, Lin, J., & Wolfson, O. (2010). Spatio-temporal information ranking in VANET applications. *International Journal of Next Generation Computing* Vol 1(1), 52-72.

Thakuriah, P., Tang, L., & Menchu, S. (2010). Car-ownership among young adults: Generational and period-specific perspectives. *Transportation Research Record, Journal of the Transportation Research Board*, Vol. 2156, 1-8.

Thakuriah, P. (2010). Evaluation of alternative data imputation strategies: A case study of motor carrier safety data. *Transportation Letters: The International Journal of Transportation Research*, Vol. 2, Issue 3, 199-216.

Yagi, S., & Mohammadian, A. (2010). An activity-based microsimulation model of travel demand in the Jakarta metropolitan area. *Journal of Choice Modelling*, Vol 3, No. 1, 32-57.

- Auld, J. *, Mohammadian, A. & Wies, K. (2009). Population synthesis with sub-region-level control variable aggregation. *ASCE Journal of Transportation Engineering*, Sep 2009, Vol. 135, Issue 9, pp. 632-639.
- Auld, J. *, Mohammadian, A. (2009). Framework for the development of the agent-based dynamic activity planning and travel scheduling (ADAPTS) model. *Journal of Transportation Letters: The International Journal of Transportation Research*, Vol. 1(3), 2009, pp. 245-255.
- Auld, J. *, Mohammadian, A. & Roorda, M. (2009). Implementation of scheduling conflict resolution model in an activity scheduling system. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2135, TRB, National Research Council, Washington D.C., 2009, pp. 96-105.
- Auld, J. *, Mohammadian, A. & Doherty, S. (2009). Modeling activity conflict resolution strategies using scheduling process data. *Transportation Research Part-A: Policy and Practice*, Vol. 43(4), 2009, pp. 386400.
- Barnum, D. T., Gleason, J. M., Hemily, B., Lin, J. & Wang, P. (2009). Estimating DEA confidence intervals using panel data analysis. *Journal of the Operational Research Society*, advance online publication. pp. 1-8, doi:10.1057/jors.2009.120.
- Chadha, R., Sistla, A. P. & Viswanathan, M. (2009). On the expressiveness and complexity of randomization in finite state monitors, *Journal of the Association for Computing Machinery*, Vol 56, No. 5, Article 26.
- Lin, J. & Ruan, M. (2009). Probability based bus headway regularity measure. *IET Intelligent Transport Systems*, Vol. 3, Iss. 4, pp. 400-408.
- Long, L., Lin, J., & Pu, W. (2009). Model-based synthesis of household travel survey data in small- and mid-size metropolitan areas. *Transportation Research Record: The Journal of Transportation Research Board* 2015, pp. 64-70, ISSN 0361-1981.
- Metaxatos, P. & Thakuriah, P. (2009). Planning for bus-on-shoulders operations in northeastern Illinois: A survey of stakeholders. *Transportation Research Record, Journal of the Transportation Research Board*, Vol.2111, pp. 10-17.
- Mohammadian, A., Javanmardi, M. & Zhang, Y. (2010). Synthetic household travel survey data simulation. *Transportation Research Part C: Emerging Technologies*, 2010, available online as of March 24, 2010.
- Pu, W. & Lin, J. (2009). Real-time estimation of urban street travel time using buses as speed sensors. *Transportation Research Record: The Journal of Transportation Research Board* 2129, pp. 81-89.
- Rashidi, T. H., Aashtiani, H. Z. & Mohammadian, A. (2009). School bus routing problem in large-scale networks: New approach utilizing Tabu search on a case study in developing countries. *Transportation Research Record: Journal of the Transportation Research Board*, No.

2137, TRB, National Research Council, Washington D.C., 2009, pp. 140-147.

Samimi, A., Mohammadian, A. & Madanizadeh, S. (2009). Effects of transportation and built environment on general health and obesity. *Journal of Transportation Research, Part D: Transport and Environment*, Vol. 14 (1), 2009, Pages 67-71.

Samimi, A., Mohammadian, A. & Kawamura, K. (2010). A behavioral freight movement microsimulation model: method and data. *Journal of Transportation Letters: The International Journal of Transportation Research*, 2(1): [2010] pp. 53-62.

Thakuriah, P. (2009). Transportation and employment accessibility in a changing context of metropolitan decentralization: The case of Delhi, India. Vol. 9 of *Projections*, the MIT Planning Journal, pp. 60-80.

Xu, B.*, Wolfson, O., Naiman, C. (2009). Machine learning in disruption-tolerant MANETs. Special issue of the *ACM Transactions on Autonomous and Adaptive Systems (TAAS) on Autonomic Communication*, 4(4), pp. 1-36.

Yagi, S. & Mohammadian, A. (2010). An activity-based microsimulation model of travel demand in the Jakarta metropolitan area. *Journal of Choice Modelling*, Vol 3, No 1, pp. 32-57.

Zhang, Y. & Mohammadian, A. (2009). Examining common distributional assumptions of travel characteristics for data simulation transportation. *Research Record: Journal of the Transportation Research Board*, No. 2121, TRB, National Research Council, Washington D.C., 2009, pp. 63-73.

Zoubeyr, F., Tari, A. & Ouksel, A. M. Backward validation of communicating complex state machines in web services environments. *Distributed and Parallel Databases*, DOI 10.1007/s10619-010-7061-8.

JOURNAL ARTICLES

Journal publications

CTS-IGERT trainees are marked with an asterisk *

*Auld, J., A. Mohammadian, and S. Doherty. (2008). Analysis of Activity Conflict Resolution Strategies. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2054, TRB, National Research Council, 10-19.

*Auld, J.A., A. Mohammadian and S.T. Doherty. (2009). Modeling Activity Conflict Resolution Strategies Using Scheduling Process Data. Forthcoming in *Transportation*

Research Part A: Policy and Practice. 43(4), 386-400.

*Auld, J.A., A. Mohammadian and M.J. Roorda. (2009). Implementation of a Scheduling Conflict Resolution Model in an Activity Scheduling System. Forthcoming in Transportation Research Record: Journal of the Transportation Research Board.

*Auld, J.A., A. Mohammadian and K. Wies. (2009). Population Synthesis with Region-Level Control Variable Aggregation. Forthcoming in Journal of Transportation Engineering.

*Auld, J., C. *Williams, A. Mohammadian, and P. Nelson. (2009). An Automated GPS-Based Prompted Recall Survey with Learning Algorithms. in the Journal of Transportation Letters: The International Journal of Transportation Research, 1(1), 59-79.

Chadha R., Sistla A.P., Viswanathan M., On the Expressiveness and Complexity of Randomization in Finite State Monitors, To appear in the Journal of the Association for Computing Machinery.

Cruz, Isabel F. and Sunna W. (2008). Structural Alignment Methods with Applications to Geospatial Ontologies, Transactions in GIS, Special Issue on Semantic Similarity Measurement and Geospatial Applications, 12,(6), 683-711.

Cruz, Isabel F. and Xiao H. (2008). A Layered Framework Supporting Personal Information Integration and Application Design for the Semantic Desktop, VLDB Journal, Special Issue on Metadata Management, 17(6), 1385-1406.

Kawamura, K. and Y.D. Lu. (2008). Economy of Scale and the Role of Publicly Available Congestion Information for Local Delivery Industry: Agent-based Simulation Approach Innovations in City Logistics (E. Taniguchi and R. Thompson, ed.), Nova Science, 63-78.

Lin, J., L. Long. (2008). What Neighborhood Are You In? Empirical Findings of Relationships between Household Travel and Neighborhood Characteristics. Transportation, 35(6) 739-758.

Lin, J., L. Long. (2008). Model-based Approach to Synthesize Household Travel Characteristics across Neighborhood Types and Geographic Areas. *The ASCE Journal of Transportation Engineering*, 134 (12) 493-503.

Lin, J., M. Ruan. (2009) Probability Based Bus Headway Regularity Measure. *IET Intelligent Transport Systems*, special issue, accepted forthcoming.

Lin, J., P. Wang, D. Barnum. (2008). A Quality Control Framework for Bus Schedule Reliability. *Transportation Research Part E: Transportation Review and Logistics*, 44(6), 1086–1098.

Long, L., J. Lin, K. Proussaloglou. (2009). Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model. *Urban Studies*, accepted and forthcoming.

Long, L., J. Lin, W. Pu. (2009). Model-Based Synthesis of Household Travel Survey Data in Small- and Mid-Size Metropolitan Areas. *The Journal of Transportation Research Board*, accepted and forthcoming.

Mohammadian, A., and S. Bekhor. (2008). Travel Behavior of Special Population Groups, *Transportation*, Springer, 35 (5), 579-583.

Mohammadian, A., M. Haider, and P. Kanaroglou. (2008). Homebuilders Choice Behavior Analysis. Forthcoming in *Canadian Journal of Regional Science*, 31 (2).

Metaxatos, P. and P. Thakuriah. (2009). Bus Operations on Shoulders. Forthcoming in *Transportation Research Record*, *Journal of Transportation Research Board*.

Minocha, Inshu, P. S. Sriraj, P. Metaxatos and P. Thakuriah. (2008). Analysis of Transit Quality of Service and Employment Accessibility for the Greater Chicago, Illinois, Region. In

Transportation Research Record, Journal of the Transportation Research Board, 2048, 20-29.

Ouksel, Aris, Barhamgi, M., Benslimane D. (2008). PWSMS: A Peer-to-Peer Web Service Management System for Data Sharing in Collaborative Environments. International Journal of Computer Systems Science and Engineering IJCSSE. 23(2), 23-53.

Pu, W., J. Lin. (2009). Real-Time Estimation of Urban Street Travel Time Using Buses as Speed Sensors. The Journal of Transportation Research Board, accepted and forthcoming.

Samimi, A. H. Z. Aashtiani, and A. Mohammadian. (2009). A Short-term Management Strategy for Improving Transit Network Efficiency, American Journal of Applied Science, 6(2), 241-246.

Samimi, A., A. Mohammadian, and S. Madanizadeh. (2009). Effects of Transportation and Built Environment on General Health and Obesity, in the Journal of Transportation Research, Part D: Transport and Environment, 14 (1), 67-71.

Thakuriah, P. Transportation and Employment Accessibility in a Changing Context of Metropolitan Decentralization: The Case of Delhi, India. Forthcoming in Vol. 9 of Projections, the Journal of the MIT Department of Urban Studies and Planning.

B. Xu, Wolfson, O., and Naiman C. (2009). Flooding by Machine Learning in Mobile Ad Hoc Networks. Accepted by a special issue of ACM Transactions on Autonomous and Adaptive Systems (TAAS) on Autonomic Communication, to appear in September 2009.

Yagi, S., and A. Mohammadian. (2008). Modeling Daily Activity-Travel Tour Patterns Incorporating Activity Scheduling Decision Rules, Transportation Research Record: Journal of the Transportation Research Board, No. 2076, TRB, National Research Council, 123-131.

Yagi, S., and A. Mohammadian. (2008). Joint Models of Home-Based Tour Mode and Destination Choices: Applications to a Developing Country, Transportation Research

Record: Journal of the Transportation Research Board, No. 2076, TRB, National Research Council, 29-40.

Yagi, S. and A. Mohammadian. (2008). Policy Simulation for New BRT and Area Pricing Alternatives Using an Opinion Survey in Jakarta. *Journal of Transportation Planning and Technology*, Taylor & Francis, 31 (5), 589-612.

Zargari, S., M. Araghi, and K. Mohammadian. (2009). An Application of Combined Model for Tehran Metropolitan Area Incorporating Captive Travel Behavior, *American Journal of Applied Science*, 6(1), 64-71.

Zhang, Y., and A. Mohammadian. (2008). Bayesian Updating of Transferred Household Travel Data, *Transportation Research Record: Journal of the Transportation Research Board*, No. 2049, TRB, National Research Council, 111-118.

Zhang, X., Wang, H., Naït-Abdesselam F., and Khokhar A., (2008) Distortion Analysis for Real-Time Data Collection of Spatio-temporally Correlated Data Fields in Wireless Sensor Networks, *IEEE Transactions on Vehicular Technology*.

Auld, J. *, Mohammadian, A. & Doherty, S. (2008). Analysis of activity conflict resolution strategies. *Transportation Research Record: Journal of the Transportation Research Board*, forthcoming.

Barhamgi, M., Benslimane, D., & Ouksel, A. (2008). PWSMS: A peer-to-peer web service

management system for data sharing in collaborative environments. *International Journal of Computer Systems Science and Engineering IJCSSE*, Special issue on Data Management in Grid and P2P Systems, forthcoming.

Bonifati, A., Chrysanthis, P. K., Ouksel, A., & Sattler, K. (2008). Distributed databases and peer-to-peer databases: Past and present. Association for Computing Machinery Special Interest Group on Management of Data SIGMOD Record, forthcoming.

Lundquist, D.* and Bhattacharyya, S. (2008). Finding seller quality and quality sellers in online markets: An agent-based analysis. *International Journal of Electronic Business*: Vol. 6, no. 1, 47-66.

Mobasher, B., Burke, R., Bhaumik, R., & Williams, C.* (2007). Toward trustworthy recommender systems: An analysis of attack models and algorithm robustness. *ACM Transactions on Internet Technology*: Vol. 7, no. 4, 23.

Mohammadian, A. & Rashidi, T. H. (2008). Modeling household vehicle transaction behavior: Competing risk duration approach. *Transportation Research Record: Journal of the Transportation Research Board*: Vol. 2014, 9-16.

Mohammadian, A. and Zhang, Y. (2007). Investigating the transferability of national household travel survey data. *Transportation Research Record: Journal of the Transportation Research Board*: Vol. 1993, 67-79.

Thakuriah, P. and Y. Liao (2007). Transportation expenditures and ability to pay: Evidence from consumer expenditure survey. In *Transportation Research Record, Journal of the Transportation Research Board*, Vol. 1985, 257-267.

Thakuriah, P., Sriraj, P. S., Soot, S., & Y. Liao (2007). Determinants of perceived importance of targeted transportation services for low-income riders. *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 1986, 145-153.

Williams, C.*, Mobasher, B., & Burke, R. (2007). Defending recommender systems: detection of profile injection attacks. *Service Oriented Computing and Applications*, Vol. 1, no. 3, 157-170.

Wolfson, O. & Xu, B. (2008). Flooding by machine learning in mobile ad hoc networks. *ACM Transactions on Autonomous and Adaptive Systems (TAAS)*, Special Issue on Autonomic Communication, forthcoming.

Yagi, S. & Mohammadian, A. (2008). Joint models of home-based tour mode and destination choices: Applications to a developing country. *Transportation Research Record: Journal of the Transportation Research Board*, forthcoming.

Yagi, S. & Mohammadian, A. (2008). Modeling daily activity-travel tour patterns incorporating activity scheduling decision rules. *Transportation Research Record: Journal of the Transportation Research Board*, forthcoming.

Yagi, S. & Mohammadian, A. (2008). Policy simulation for new BRT and area pricing alternatives using an opinion survey in Jakarta. *Journal of Transportation Planning and Technology*: Vol. 31, no. 3.

Zhang, Y. & Mohammadian, A. (2008). Bayesian updating of transferred household travel data using Markov chain Monte Carlo simulation with Gibbs sampler. *Transportation Research Record: Journal of the Transportation Research Board*, forthcoming.

Journal Articles in Non-Refereed Publications

Angel, S., Parent, J., Civco, D. L., & Blei, A. M.* (2011). Making room for the planet of cities. *Policy Focus Report*, Cambridge MA: Lincoln Institute of Land Policy.

Auld, J.* , Rashidi, T. H., & Javanmardi, M.* (2011). A dynamic activity generation model using the competing hazards framework. *Proceedings of the 90th Annual Meeting of the Transportation Research Board (DVD)*.

Ghica, O., Trajcevski, G., Wolfson, O., Buy, U., Scheuermann, P., Zhou, F., Vaccaro, D. (2010). Trajectory Data Reduction in Wireless Sensor Networks. Invited paper, to appear in the *International Journal of Next-Generation Computing (IJNGC)*.

Javanmardi, M., Rashidi, T. H. & Mohammadian, A. (2010). Household travel data simulation tool: Software and its applications for impact analysis. *Forthcoming. Transportation Research Record: Journal of the Transportation Research Board*.

Ouksel, A. M. & Lundquist, D.* Demand-driven publish/subscribe in mobile environments. To appear in *Wireless Networks (WINET)*, an International Journal.

Szczurek, P. M.* , Xu, B.* , Lin, J., Wolfson, O. (2010). Spatio-temporal Information Ranking in VANET Applications. Invited paper, to appear in the *International Journal of Next-Generation Computing (IJNGC)*.

Thakuriah, P., Persky, J. & Soot, S. (2009). Dynamic microsimulation of transportation and labor markets. *Proceedings of the International Association of Travel Behavior Research*.

Wolfson, O. (2009, November). MOBI-DIK: An approach to querying data in a mobile ad hoc network. *Proceedings of the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad-hoc Networks*, St. Louis, MO.

Wolfson, O. (2010). Computing Challenges in Intelligent Transportation Systems. Invited participation and position paper, to appear in the *Proceedings of the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad-hoc Networks*, Kansas City, MO.

Wolfson, O., Xu, B.* (2010). Spatio-temporal Databases in Urban Transportation. Invited paper, to appear in the IEEE Data Engineering Bulletin, Special Issue on New Frontiers in Spatial and Spatio-temporal Database Systems.

Books

Angel, S., with Civco, D.L., Parent, J., & Blei, A.M.* 2012. The Atlas of Urban Expansion Cambridge, MA: Lincoln Institute of Land Policy

Thakuriah, P., and Geers, G. (2013) Transportation and Information: Trends in Technology and Policy. Springer, New York, NYC, USA.

Angel, S., Civco, D. L., Parent, J., & Blei, A. M.* (2012). The Atlas of Urban Expansion Cambridge, MA: Lincoln Institute of Land Policy. ISBN 978-1-55844-243-6.

Angel, S., Blei, A. M.*, Parent, J., & Civco, D. L. (2011). The Decline in Transit Sustaining Density, 1910-2000. In Ingram, G, Hong, Y. (Eds). The Environment, Climate Change, and Land Policies. Cambridge MA: Lincoln Institute of Land Policy. ISBN 978-1-55844-217-7.

Thakuriah, P., Geers, G., Wolfson, O., & Bhaduri, B. (eds.) (2011). Proceedings of 4th ACM SIGSPATIAL International Workshop on Computational Transportation Science. Held in conjunction with ACM SIGSPATIAL GIS 2011. ACM Press, New York. ACM ISBN: 978-1-4503-1034-5.

Book Chapters

Luo, Yan and Wolfson, Ouri. Mobile Peer-to-Peer Databases. In *Encyclopedia of Geographic Information Science*, Edited by Shashi Shekhar and Hui Xiong. Springer-Verlag, 2007. 9780387308586

Biagioni, J.*, & Krumm, J. (2013). Days of our lives: Assessing day similarity from location traces. In User Modeling, Adaptation, and Personalization (pp. 89-101), New York, ed. S. Carberry, S. Weibelzahl, A. Micarelli, and G. Semerano, doi:10.1007/978-3-642-38844-6_8, Springer Berlin Heidelberg.

McDonnell, S., J. Lin (2013) "Use of Biodiesel in Railways and Its Impact on Greenhouse Gas Emissions and Land Use", Chapter 9, Transport Beyond Oil: Policy Choices for a Multi-Modal Future (pp. 161-177), Washington D.C., ed. J. Renee and W. Fields, ISBN-10:1610910435, ISBN-13:978-1610910439, Island Press

Niemeier, D., A. Goodchild, M. Rowell, J. Walker, J. Lin, L. Schweitzer (2013) "Chapter 14 Transportation", in Assessment of Climate Change in the Southwest United States (pp. 297-311), Washington D.C., ed. G. Garfin, ISBN: 9781610914468, Island Press

K. Kawamura. Impacts of compact development on freight activities in US cities. In Urban Freight for Livable Cities. The Volvo Research and Educational Foundations, VREF. Goteborg, Sweden 2013 pp. 126-135, ed C. Wolmar, ISBN: 978-91-637-2827-3

McDonnell, S., & Lin, J. (2013) "Use of Biodiesel in Railways and Its Impact on Greenhouse Gas Emissions and Land Use", Chapter 9, *Transport Beyond Oil: Policy Choices for a Multi-Modal Future*, ed. J. Renee and W. Fields, ISBN-10:1610910435, Island Press

Samimi, A., Mohammadian, A., & Kawamura, K. (2012) "Behavioral Freight Movement Modeling", in Bhat, C.R. and R.M. Pendyala, *Travel Behaviour Research in an Evolving World*. Chapter 8, 22 pages, Lulu Publishers, USA, ISBN-10:9781105473784, 2012.

Ouksel, A., Lundquist, D.*, & Bhattacharya, S. (2013) "Smart Pricing and Market Formation in Intelligent Mobile P2P networks", Ed. Soumya, S. Forthcoming 2013, Wiley.

Fan, P., Mohammadian, A., & Nelson, P. C. (2011). A clustering algorithm for vehicular ad-hoc networks. In A. R. Prasad, J. F. Buford, Vijay K. Gurbani (editors), *Future Internet Services and Service Architectures*, (Chapter 20 pp. 435-461). River Publishers. ISBN-13: 978-8792329592.

Rishe, N., Furht, B., Adjouadi, M., Barreto, A., Cheremisina, E., Davis, D., Wolfson, O., Adam, N., Yesha, Y., Yesha, Y. (2011). Geospatial Data Management With TerraFly. In B. Furht, A. Escalante (eds.), *Handbook of Data Intensive Computing*, (Chapter 25, pp.637-665). Springer Verlag. ISBN 978-1-4614-1414-8.

Rishe, N., Furht, B., Adjouadi, M., Barreto, A., Davis, D., Wolfson, O., Yesha, Y., & Yesha, Y. (2011). Semantic wrapper: Concise semantic querying of legacy relational databases. In B. Furht, A. Escalante (eds.), *Handbook of Data Intensive Computing*, (Chapter 15 pp.415-444). Springer Verlag. ISBN 978-1-4614-1414-8.

Winter, S., Sester, M., Wolfson, O., Geers, G. (2011). Community activities: Towards a computational transportation science. In *Journal of Spatial Information Science*, (v.1(2), p 1). doi:10.5311/JOSIS.2010.2.2.

O. Wolfson, O. & Xu, B.* (2010). Spatio-temporal databases in urban transportation. In *Bulletin of the IEEE Computer Society Technical Committee on Data Engineering*, Vol. 33, No. 2, Issue on New Frontiers in Spatial and Spatio-temporal Database Systems, (pp. 18-25).

Melendez, L., Wolfson, O., Adjouadi, M., Rishe, N. (2010). Qualitative analysis of commercial social network profiles. In *Handbook of Social Networks, Technologies and Applications*, B. Furht (Ed.), Springer, (pp.95-113).

Winter, S., Sester, M., Wolfson, O., Geers, G. (2010). Community activities: Towards a computational transportation science, In *Journal of Spatial Information Science*, Vol. 1(2), 27.

Winter, S., Sester, M., Wolfson, O., Geers, G. (2010). Towards a computational transportation science, In *SIGMOD Record* 39(3) (pp. 27-32).

Kawamura, K. & Lu, Y. D. (2009). Economy of scale and the role of publicly available congestion information for local delivery industry: Agent-based simulation approach. In E. Taniguchi and R. Thompson, (Eds.), *Innovations in City Logistics*, Nova Science, New York.

Luo, Y. & Wolfson, O. (2009). MANET Databases. In *Encyclopedia of Database Systems*, Springer, pp. 1685-1691.

Luo, Y., Wolfson, O. & Xu, B.* The MOBI-DIK approach to searching in mobile ad hoc network databases. X. Shen, H. Yu, J. Buford, M. Akon (Eds.). In *the Handbook of Peer-to-Peer Networking*, Springer.

Mohammadian, A., Auld, J.* & Yagi, S. (2009). Recent progress on activity-based microsimulation models of travel demand and future prospects. In Brian W. Sloboda (Ed.), *Transportation Statistics*, Chapter 7, pp. 151-172. J. Ross Publishing.

Trajcevski, G., Wolfson, O. & Scheuermann, P. (2009). Compression of mobile location data, In *Encyclopedia of Database Systems*, Springer, pp. 421- 429.

Williams, C. A.*, Nelson, P. C. & Mohammadian, C. A. (2009). Attribute constrained rules for partially labeled sequence completion. In Petra Perner, (Ed.) *Advances in Data Mining - Applications and Theoretical Aspects*, Lecture Notes in Computer Science, v. 5633, Springer-Verlag Berlin Heidelberg, pp. 338-352.

Wolfson, O. (2009). Mobile database. Definitional entry. In *the Encyclopedia of Database Systems*, Springer, pp. 1751.

Wolfson, O. (2009). Foreword for book. B-C. Seet (Ed.). *Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications*. IGI Global Publishing.

Cruz, Isabel F. and Xiao, H. (2009). Ontology Driven Data Integration in Heterogeneous Networks. In *Complex Systems in Knowledge-based Environments*, eds. Andreas Tolck and Lakhmi Jain, (pp. 75-97). New York: Springer.

Cruz, Isabel F. and Xiao, H. (2008). Data Integration for Querying Geospatial Sources. Geospatial Services and Applications for the Internet, eds. John Sample, Kevin Shaw, Shengru Tu, and Mahdi Abdelguerfi. (pp. 113-137). New York: Springer.

Di Eugenio, N. Green. Emerging applications of Natural Language Generation. (To appear 2009). The Handbook of Natural Language Processing, N. Indurkha, F. Damerau (Eds).

Luo Y., Wolfson O., Xu B. (2009). The MOBI-DIK Approach to Searching in Mobile Ad Hoc Network Databases. Chapter in the book Handbook of Peer-to-Peer Networking, X. Shen, H. Yu, J. Buford, M. Akon (eds.). New York: Springer.

Mohammadian, A., *J. Auld, and S. Yagi. (2009). Recent Progress on Activity-Based Microsimulation Models of Travel Demand and Future Prospects, Chapter 7, Transportation Statistics, Brian W. Sloboda (editor). Ft. Lauderdale, FL: J. Ross Publishing.

Wolfson O. (2009). Mobile Database. Definitional entry, accepted to appear in the Encyclopedia of Database Systems. New York: Springer.

G. Trajcevski, O. Wolfson, and P. Scheuermann, "Compression of Mobile Location Data", accepted to appear in the Encyclopedia of Database Systems", Springer, 2009.

Y. Luo and O. Wolfson, "MANET Databases", accepted to appear in the Encyclopedia of Database Systems", Springer, 2009.

Wolfson O. (2009). Foreword to the book, Mobile Peer-to-Peer Computing for Next Generation Distributed Environments: Advancing Conceptual and Algorithmic Applications, B.-C. Seet (ed.). Hershey, Pennsylvania: IGI Global Publishing.

Dillenburg, J. F. & Nelson, P. C. (2008). Data handling in Intelligent Transportation Systems. In B. Wah (Ed.), Wiley Encyclopedia of Computer Science and Engineering (forthcoming).

Hoboken, NJ: John Wiley & Sons, Inc.

Luo, Y. & Wolfson, O. (2008). MANET databases. In L. Liu & M. T. Ozsu (Eds.), the Encyclopedia of Database Systems (forthcoming). New York: Springer.

Luo, Y. & Wolfson, O. (2008). Mobile peer-to-peer databases. In S. Shekhar and H. Xiong (Eds.), the Encyclopedia of Geographic Information Science (pp. 123). New York: Springer.

Trajcevski, G., Wolfson, O., & Scheuermann, P. (2008). Compression of mobile location data. In L. Liu & M. T. Ozsu (Eds.), the Encyclopedia of Database Systems (forthcoming). New York: Springer.

Patent Applications

Ouksel, Aris M. and *Lundquist, Doug E. Serendipity Social Computing: Self-Organizing Information Dissemination and Discovery in Mobile Environments. 60/883,949, filed January 08, 2007.

Ouksel, A., & Lundquist, D.* Serendipity Social Computing: Self-Organizing Information Dissemination and Discovery in Mobile Environments.(2011). Patent Application UIC-D100, Washington, DC: Patent and Trademark office

Stenneth, L., & Modica, L., Vehicle arrival prediction (2012) Nokia Patent Application No. NC81388 US. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Structure access characteristics determined from mobile unit data (2012) Nokia Patent Application No. NC81101 US. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., Wolfson, O., Yu, P., & Xu , B.*, Systems and methods for activity classification (2012) US serial# 61/720,815. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Methods and apparatus for transit mapping, (2012) Nokia Patent Application No. NC79749US. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Methods and apparatus for deriving spatial properties of bus stops and traffic controls, (2012) Nokia Patent Application No. NC79747US. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Real-time vehicle spacing control (2012) - U. S. Provisional patent pending No. 13/739709. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Deviation detection in mobile transit systems (2012), U. S. Provisional patent pending No. 13/739560. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., & Modica, L., Methods and apparatus for transit mapping (2012). U. S. Provisional patent pending No. 13/781188. Washington, DC: U.S. Patent and Trademark Office.

Ayala, D.*, Wolfson, O., Xu, B.*, Dasgupta, B., & Lin, J. (2011). U. S. Provisional patent pending No. 61/587,294. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., Wolfson, O., Yu, P., Xu, B.* (2012). U.S. Provisional patent pending No. 61/623,394. Washington, DC: U.S. Patent and Trademark Office.

Stenneth, L., Wolfson, O., Yu, P., Xu, B.*(2012). U.S. Provisional patent pending No. 61/623,915, Washington, DC: U.S. Patent and Trademark Office.

Wolfson, O. & Tanizaki, M. (2009). U.S. patent application No. 12/610,912, U.S. Patent and Trademark Office.

Patents

Title: "An Integrated Architecture for Efficient Query Processing in Wireless Sensor Networks" (Aris M. Ouksel and Lin Xiao): February 26, 2009 under Publication number US 2009/0055691 A1. Title: "Serendipity Social Computing: Self-Organizing Information Dissemination and Discovery in Mobile Environments." (Aris M. Ouksel and D. Lundquist) Patent Application, UIC-CZ032. Provisional. 2008.

Patents Awarded

Wolfson, O., & Xu, B. (2010). US Patent No. 7,849,139 Washington, D.C.: U.S. Patent and Trademark Office.

Ouksel, A. M. & Xiao, (2009). Publication number US 2009/0055691 A1. Title: An Integrated Architecture for Efficient Query Processing in Wireless Sensor Networks

Ouksel, A. M. & Lundquist, D.* Patent Application UIC-CZ032. Provisional.
Title: "Serendipity Social Computing: Self-Organizing Information Dissemination and Discovery in Mobile Environments."

Conference Publications

Dranger, Stephen; Sloan, Robert H.; and Solworth, Jon A. "The Complexity of Discretionary Access Control." In First International Workshop on Security, 2006 405-420.

Wolfson, Ouri; Xu, Bo; Yin, H; and Cao, H. "Search-and-Discover in Mobile P2P Network Devices." In The 26th International Conference on Distributed Computing Systems, 2006 1-9.

Trajcevski, G; Cao, H; Scheuermann, P; Wolfson, Ouri; and Vaccaro, D. "On-Line Data Reduction and the Quality of History in Moving Objects Databases." In 5th ACM International Workshop on Data Engineering for Wireless and Mobile Access, 2006 19-26.

Luo, Yan; Wolfson, Ouri; and Xu, Bo. "A Spatial-Temporal Approach for Selective Data Dissemination in Mobile Peer-to-peer Networks." In Third International Conference on Wireless and Mobile Communications, 2007 n/a (forthcoming).

Wolfson, Ouri and Xu, Bo. "Mobile Peer-to-peer Data Dissemination with Resource Constraints." In 8th International Conference on Mobile Data Management, 2007 n/a (forthcoming).

Haran, James G.; Dillenburg, John F.; and Nelson, Peter C. "Real-time Automated Image Processing Algorithms for the Detection of Road and Environmental Conditions." In 9th International Conference on Applications of Advanced Technology in Transportation, 2006 55-60.

Fan, Peng; Mohammadian, Abolfazl; Nelson, Peter C.; Haran, James G.; and Dillenburg, John F. "A Novel Direction Based Clustering Algorithm in Vehicular Ad Hoc Networks." In 86th Annual Meeting of the Transportation Research Board, 2007 19p (CD-ROM).

Sriraj, P S.; Minor, Mark; and Thakuria, Piyushimita. "A Spatial Decision Support System for Transit and Housing Markets using the Analytic Hierarchy Process and Interactive GIS." In 9th International Conference on Applications of Advanced Technology in Transportation, 2006 816-821.

Zhang, Yongping and Mohammadian, Abolfazl. "Enhancing the Quality of Transferred Household Travel Survey Data: A Bayesian Updating Approach Using MCMC with Gibbs Sampling." In 11th TRB Transportation Planning Application Conference, 2007 n/a (forthcoming).

Yagi, Sadayuki and Mohammadian, Abolfazl. "Microsimulation and Policy Applications of an Activity-Based Modeling System of Travel Demand." In 86th Annual Meeting of the Transportation Research Board, 2007 23p (CD-ROM).

Yagi, Sadayuki and Mohammadian, Abolfazl. "Policy Simulation for New Bus Rapid Transit and Area Pricing Alternatives Using an Opinion Survey in Jakarta." In 86th Annual Meeting of the Transportation Research Board, 2007 22p (CD-ROM).

Yagi, Sadayuki and Mohammadian, Abolfazl. "Activity-Based Microsimulation Models of

Travel Demand in Developing Countries: Jakarta Case Study." In 11th International Conference on Travel Behaviour Research, 2006 n/a (forthcoming).

Yagi, Sadayuki and Mohammadian, Abolfazl. "An Exploratory Analysis of the Household Travel Behavior and Lifestyle Choices." In 9th International Conference on Applications of Advanced Technology in Transportation, 2006 665-670.

Yagi, Sadayuki and Mohammadian, Abolfazl. "Modeling Tour Mode and Destination Choice in the Jakarta Metropolitan Area." In 9th International Conference on Applications of Advanced Technology in Transportation, 2006 659-664.

Yagi, Sadayuki and Mohammadian, Abolfazl. "An Activity-Based Microsimulation Model of Travel Demand in the Jakarta Metropolitan Area." In 9th International Conference on Applications of Advanced Technology in Transportation, 2006 683-688.

Yagi, Sadayuki and Mohammadian, Abolfazl. "SP-RP Joint Mode Choice Modeling and Policy Simulation: A Case Study of Jakarta." In International Conference on Computing and Decision Making in Civil and Building Engineering, 2006 1025-1034.

Ouksel, Aris M.; Jurca, Oana; Podnar, Ivana; and Aberer, Karl. "Efficient Probabilistic Subsumption Checking for Content-based Publish/Subscribe Systems." In 7th International Middleware Conference, 2006 121-140.

Wolfson, Ouri. "Mobile P2P Databases." In NSF Workshop on Data Management for Mobile Sensor Networks (MobiSensors), 2007 n/a (position paper).

Wolfson, Ouri. "Mobile P2P Databases." In Workshop on Agent-Based Modeling of Complex Spatial Systems, 2007 n/a (position paper).

Boncz, Peter A.; Bonifati, Angela; Janacik, Peter; Konig-Ries, Bergitta; Illarramendi, Arantza; Lehner, Wolfgang; Marron, Pedro J.; May, Wolfgang; Ouksel, Aris M.; Romer, Kay; Sapkota, Brahmananda; Sattler, Kai-Uwe; Schweppe, Heinz; Steinmetz, Rita; and Turker, Can. "Managing and Integrating Data in P2P Databases." In Dagstuhl Seminar on Scalable Data Management in Evolving Networks, 2006 3 pages.

Bose, Joos-Hendrick; Bottcher, Stefan; Chrysanthis, Panos K.; Delis, Alex; Greunwald, Le; Mondal, Arniban; Obermeier, Sebastian; Ouksel, Aris M.; Samaras, George; and Viglas, Stratis D. "Atomicity in Mobile Networks." In Dagstuhl Seminar on Scalable Data Management in Evolving Networks, 2006 5 pages.

Burke, Robin; Mobasher, Bamshad; *Williams, Chad A.; and Bhaumik, Runa. "Detecting Profile Injection Attacks in Collaborative Recommender Systems." In 8th IEEE Conference on E-Commerce Technology (CEC'06), 2006 23 pages.

Wolfson, O., & Lin, J. (2014, November). A marketplace for spatio-temporal resources and truthfulness of its users. In Proceedings of the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science (pp. 70-75). ACM, Dallas, Texas.

Chen, Z., Yin, Y., He, F., & Lin, J. L. (2015). Parking Reservation for Managing Downtown Curbside Parking. In Transportation Research Board 94th Annual Meeting (No. 15-5008), Washington D.C., January 11-15, 2015

Zhou, W., Chen, Q.*, & Lin, J. (2015). Green Vehicle Routing Problem Considering Joint Effect of Vehicle Load and Speed. In Transportation Research Board 94th Annual Meeting (No. 15-1112), Washington D.C., January 11-15, 2015

Lin, J., Szczurek, P.*, Wolfson, O., & Xu, B.* (2015) The Observe-Driver-and-Learn Platform for the Development of VANET Safety Applications. In Transportation Research Board 94th Annual Meeting (No. 15-4657), Washington D.C., January 11-15, 2015

Padhariya, N., Wolfson, O., Mondal, A., Gandhi, V., & Madria, S. K. (2014, July). E-VeT: Economic Reward/Penalty-Based System for Vehicular Traffic Management. In IEEE 15th International Conference on Mobile Data Management (MDM), 2014,(Vol. 1, pp. 99-102). IEEE.

Ma, S., Wolfson, O., & Xu, B.* (2014). UPDetector: Sensing Parking/Unparking Activities Using Smartphones. In Proceedings of the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science, (pp. 76-85). ACM, Dallas, Texas.

Blei, A.*, Kawamura, K., Javanmardi, M.*, & Mohammadian, A. (2015). Evaluation of VMT Estimation Methods Using GPS Travel Survey Data. In Transportation Research Board 94th Annual Meeting (No. 15-5811), Washington D.C., January 11-15, 2015

Biagioni, J.*, Musa, A. B. M., & Eriksson, J. (2013, November). Thrifty tracking: online GPS tracking with low data uplink usage. In Proceedings of the 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (pp. 486-489). ACM.

Chen, Q.*, & Lin, J. J. (2014). A Preliminary Investigation of Sustainable Urban Truck Routing Strategies Considering Cargo Weight and Vehicle Speed. In Transportation Research Board 93rd Annual Meeting (No. 14-3300).

Fasihozaman Langerudi, M., Javanmardi, M.*, Mohammadian, A. K., & Sriraj, P. S. (2014). Choice Set Imputation: A Two Step Weighted Stratified and Hazard-Based Approach. In Transportation Research Board 93rd Annual Meeting (No. 14-2937).

Javanmardi, M.*, Talebpour, A., Fasihozaman Langerudi, M., & Mohammadian, A. K. (2014). Integrated Demand and Supply Model: A Network Wide Validation. In Transportation Research Board 93rd Annual Meeting (No. 14-4298).

Kawamura, K., Sriraj, P.S. Surat, H., and Menninger, M., "Analysis of Built Environment Features and Their Effects on Freight Activities". 8th International Meeting of the Institute of City Logistics, Bali, Indonesia, June 17, 2013

Li, Q., Nie, Y. M., Lin, J. & Homem-de-Mello, T. (2013) Finding reliable and sustainable routes: an approach using risk constraints, TRISTAN 8 Eighth Triennial Symposium on

Transportation Analysis (pp. 1-4), San Pedro de Atacama, Chile, June 9 - 14, 2013

Ma, S., & Wolfson, O. (2013, November). Analysis and evaluation of the slugging form of ridesharing. In Proceedings of the 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (pp. 64-73). ACM.

Pourabdollahi, Z., Karimi, B., Mohammadian, A., and Kawamura, K. Shipping Chain Choices in Long Distance Supply Chains: Descriptive Analysis and a Decision Tree Model, In the 93rd Annual Transportation Research Board Meeting, Washington D.C. 11-16, January, 2014.

Pourabdollahi, Z., Karimi, B., Mohammadian, A., and Kawamura, K. A Multi-Criteria Supplier Evaluation Model for Supply Chains, In the 93rd Annual Transportation Research Board Meeting, Washington D.C. 11-16, January, 2014.

Pourabdollahi, Z., Mohammadian, A., and Kawamura, K. An Optimization Model for Supplier Selection, In the INFORMS 2013 Annual Meeting, Minneapolis, MN, October 6-9, 2013.

Pourabdollahi, Z., Karimi, B., Mohammadian, A. K., & Kawamura, K. (2014). A Multi-Criteria Supplier Evaluation Model for Supply Chains. In Transportation Research Board 93rd Annual Meeting (No. 14-1703).

Sturm, K.*, Pourabdollahi, Z., Mohammadian, A. K., & Kawamura, K. (2014). GPS and Driver Log-Based Survey of Grocery Trucks in Chicago. In Transportation Research Board 93rd Annual Meeting (No. 14-2978).

Varriale II, R.*, Ma, S., & Wolfson, O. (2013, November). VTIS: A Volunteered Travelers Information System. In Proceedings of the Sixth ACM SIGSPATIAL International Workshop on Computational Transportation Science (p. 13). ACM.

Xu, B.*, Wolfson, O., Yang, J., Stenneth, L., Yu, P. S., & Nelson, P. C. (2013, June). Real-time Street Parking Availability Estimation. In Mobile Data Management (MDM), 2013 IEEE 14th International Conference on (Vol. 1, pp. 16-25). IEEE.

Zhou, W., Chen, Q.*, & Lin, J. J. (2014). Empirical Study of Urban Commercial Vehicle Tour Patterns in Texas. In Transportation Research Board 93rd Annual Meeting (No. 14-5132).

Ayala, D.*, Wolfson, O., Xu, B.*, DasGupta, B., & Lin, J. (2012) Parking in Competitive Settings: A Gravitational Approach, Proceedings of 13th International Conference on Mobile Data Management, Bengaluru, India, July 23-26, 2012, pp. 27-32, ISBN: 978-0-7695-4713-8, <http://dx.doi.org/10.1109/MDM.2012.44>.

Ayala, D.*, Wolfson, O., Xu, B.*, DasGupta, B., & Lin, J. (2012, July). Stability of Marriage and Vehicular Parking. In MATCH-UP 2012: the Second International Workshop on Matching Under Preferences (p. 7).

Ayala, D.*, Wolfson, O., Xu, B.*, DasGupta, B., & Lin, J. (2012) Spatio-temporal Matching:

Algorithms for Transportation Applications, Presented at 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, California, November 6-9, 2012, pp. 518-521, ISBN: 978-1-4503-1691-0, <http://dx.doi.org/10.1145/2424321.2424404>.

Ayala, D.*, Wolfson, O., Xu, B.*, DasGupta, B., & Lin., J. (2012) Pricing of Parking for Congestion Reduction, Proceedings of 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, California, November 6-9, 2012, pp. 43-51, ISBN: 978-1-4503-1691-0 <http://dx.doi.org/10.1145/2424321.2424328>

Biagioni, J. *, & Eriksson, J. (2012). Inferring road maps from GPS traces: Survey and comparative evaluation. In Transportation Research Board 91st Annual Meeting (No. 12-3438). ISBN: 978-0-3092-2335-5

Fasihozaman Langerudi, M., Hossein Rashidi, T., & Mohammadian, A. (2013). Investigating the Transferability of Individual Trip Rates: Decision Tree Approach. In Transportation Research Board 92nd Annual Meeting (No. 13-0218).

Karimi, B., Rashidi, T. H., Mohammadian, A. K., & Sturm, K.* (2012). Young-old elderly and baby boomers: An explanatory analysis on activity duration, time-of-day choice, and planning time horizons. In Transportation Research Board 91st Annual Meeting (No. 12-0567), ISSN: 0361-1981.

Karimi, B., Shafahi, Y., Mohammadian, A., & Sturm, K.* (2013). A Multiobjective, Stochastic, and Capacity-Constrained Static Location Model for Ambulances. In Transportation Research Board 92nd Annual Meeting (No. 13-4972).

Karimi, B., Shafahi, Y., Mohammadian, A., & Sturm, K.* (2013) âMulti-objective, Stochastic, and Capacity-Constrained Static Location Model for Ambulancesâ, in proceedings of: 92nd Annual Transportation Research Board Meeting, Washington D.C., January, 2013.

Li, Q., Nie, Y., Vallamsundar, S., Lin, J. J., & Homem-de-Mello, T. (2013). Incorporating Environmental Measures into a Reliable Freight Routing Model. In Transportation Research Board 92nd Annual Meeting (No. 13-4185).

Lin, J., & Zhou, W. (2013) Urban Commercial Vehicle Trip-Chaining: Regional Comparison between Texas and Idaho, Proceedings of the 2013 Transportation Research Board Annual Meeting, Washington D.C., January, 2013, (No. 13-3121)

Lundquist, D.* & Ouksel, A. (2012) A Context-Aware Cross-Layer Broadcast Model for Ad Hoc Network: Analysis of Multi-Hop Routing. 9th International Conference on Mobile Web Information Systems (MobiWIS) , Niagara Falls, Canada, August 2012. <http://dx.doi.org/10.1016/j.bbr.2011.03.031>

Ouksel, A. & Lundquist, D.* (2012) A Context-Aware Cross-Layer Broadcast Model for Ad Hoc Networks. 3rd International Conference on Ambient Systems, Networks and Technologies (ANT 2012), Niagara Falls, Canada. August 2012. <http://dx.doi.org/10.1016/j.bbr.2011.03.031>

Pourabdollahi, Z., Karimi, B., & Mohammadian, A. (2013). A Joint Model of Freight Mode and Shipment Size Choice. In Transportation Research Board 92nd Annual Meeting (No. 13-3238).

Pourabdollahi, Z., Mohammadian, A. K., & Kawamura, K. (2012, August). A behavioral freight transportation modeling system: an operational and proposed framework. In Proceedings of the 14th Annual International Conference on Electronic Commerce (pp. 196-203). ACM. ISBN: 978-1-4503-1197-7

Sturm, K.*, Pourabdollahi, Z., & Mohammadian, A. (2013). Nationwide Establishment and Freight Survey: Descriptive and Nonresponse Bias Analyses. In Transportation Research Board 92nd Annual Meeting (No. 13-3872).

Szczurek, P.*, Xu, B.*, Wolfson, O., & Lin, J. (2012, June). A platform for the development and evaluation of passive safety applications. In Intelligent Vehicles Symposium (IV), 2012 IEEE (pp. 808-813). IEEE. ISBN: 978-1-4673-2119-8

Thakuriah, P., Tang, L., & Vassilakis, W. (2012) Assessment of temporal and spatial effects of bus arrival time information and implications for spatially targeted location-based services. In: Transportation Research Board Annual Conference 2012, Jan 2012, Washington, DC, USA.

Thakuriah, P., & Vassilakis, W. (2012) Perceived and functional independence in travel: assessing the role of neighborhood factors and community-based mobility services for persons with disabilities. In: Transportation Research Board Annual Meeting , Jan 2012, Washington DC, USA.

Tilahun, N., Thakuriah, P., & Mallon, Y. (2013) Factors Determining Transit Access by Car Owners: Implications for Intermodal Passenger Transportation Planning. In: Transportation Research Board Annual Conference, 13-17 Jan 2013, Washington DC, USA.

Vallamsundar, S., & Lin, J. (2013) Sensitivity Test Analysis of MOVES and AERMOD models, Proceedings of the 2013 Transportation Research Board Annual Meeting, Washington D.C., January, 2013, (No. 13-1590)

Williams, C. A.*, Mohammadian, A., Auld, J.*, & Doherty, S. T. (2013). Enhancing Traveler Context through Transferable Activity Patterns. In Mobile Computing, Applications, and Services (pp. 412-423). Springer Berlin Heidelberg. ISBN: 978-3-642-36631-4

Ayala*, D., Wolfson, O., Xu, B.*, Dasgupta, B., & Lin, J. (2011). Parking slot assignment games. 19th ACM SIGSPATIAL Intl. Conf. on Advances in Geographic Information Systems, 299-308.

Biagioni, J.*, & Eriksson, J. (2012). Inferring road maps from GPS traces: Survey and comparative evaluation. Proceedings of 91st Annual Meeting of the Transportation Research Board, 21 pages.

Biagioni J.*, Gerlich T.*, Merrifield T., & Eriksson J. (2011). EasyTracker: Automatic transit tracking, mapping, and arrival time prediction using smartphones. SenSys, 68-81.

Chen, Q., Lin, J., & Kawamura, K. (2012). A comparison between urban cooperative delivery and direct 6 delivery strategies. Proceedings (online) of the 91st Transportation Research Board Annual Meeting, paper no. 12-2173.

Gerlich T.*, Biagioni J.*, Merrifield T., & Eriksson J. (2011). Demo: Tracking transit with EasyTracker. SenSys, 401-402.

Lin, J., Chiu, Y. C., Vallamsundar, S., & Bai, S. (2011). Integration of MOVES and Dynamic Traffic Assignment Models for Fine-Grained Transportation and Air Quality Analyses, Proceedings of the IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS), 176-181.

Ma, S., Wolfson, O., & Lin, J. (2011). A survey on trust management for Intelligent Transportation System. Proceedings of the 4th ACM SIGSPATIAL International Workshop on Computational Transportation Science, 18-23.

Ouksel, A. and Lundquist, D.*, Pollution Credit Trading in Vehicular Ad Hoc Networks, 18th World Congress on Intelligent Transport Systems, session for Connected Vehicle Challenge winners (<http://connectedvehicle.challenge.gov/submissions>), Orlando, Florida, October 2011.

Rashidi, T. H., & Mohammadian, A. (2011). Behavioral housing search choice set formation: A hazard-based screening model of property value and work distance, T&DI Congress 2011: Integrated Transportation and Development for a Better Tomorrow - Proceedings of the 1st Congress of the Transportation and Development Institute of ASCE, 919-937.

Sistla, P., Wolfson, O., Xu, B.,* & Rische, N. (2011). Answer-pairs and processing of continuous nearest-neighbor queries. Proceedings of the 7th ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing (FOMC), 16-24.

Szczurek, P*., Xu, B.*, Wolfson, O., & Lin, J. (2011). Intelligent Transportation Systems: When is safety information relevant. Proceedings of the 12th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2011), 1-6.

Stenneth, L., Wolfson, O., Yu, P., & Xu, B.* (2011). Transportation mode detection using mobile devices and GIS information,. Proceedings of the 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), 54-63.

Xu, B.*, Wolfson, O., & Cho, H. J. (2011). Monitoring neighboring vehicles for safety via V2V communication. Proceedings of the 2011 IEEE International Conference on Vehicular Electronics and Safety (ICVES), 280-285.

Vallamsundar, S. & Lin, J. (2012). Transportation conformity particulate matter hot-spot modeling - Use of MOVES and AERMOD models. Proceedings (online) of the 91st Transportation Research Board Annual Meeting, paper no. 12-4503.

Auld, J. A.*, & Mohammadian, A. (2010). Planning constrained destination choice modeling in the Adapts activity-based model. Proceedings of the 12th World Conference on Transport Research (WCTR), Lisbon, Portugal.

Auld, J. A.*, Frignani, M. Z., Mohammadian, A. (2010). Results of the UTRACS internet-based prompted recall GPS travel survey: Empirical analysis of the activity planning process. Proceedings of the 12th World Conference on Transport Research (WCTR), Lisbon, Portugal.

Auld, J. A.*, & Mohammadian, A. (2011). Constrained destination choice in the ADAPTS activity-based model. Proceedings of the 90th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Auld, J. A.*, Rashidi, T., Javanmardi, M.*, & Mohammadian, A. (2011). Activity generation model using a competing hazard formulation. Proceedings of the 90th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Auld, J. A.*, & Mohammadian, A. (2011). Empirical analysis of the activity planning process. Proceedings of the 90th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Cary, A., Wolfson, O., & Rische, N. (2010). Efficient and scalable method for processing top-k spatial boolean queries. Proc. of the 22nd International Conference on Scientific and Statistical Database Management (SSDBM), Heidelberg, Germany, (pp. 87-95).

Cottrill, C.*, & Thakuriah, P. (2011). Protecting locational privacy: Policy evaluation. Proc.

88th Transportation Research Board Annual Conference.

Cottrill, C.* (2010). Examining privacy and surveillance in urban areas: A transportation context: Hot topics in privacy enhancing technologies (HotPETs). Berlin, Germany.

Frignani, M., Auld, J. A.*, & Mohammadian, A. (2011). Empirical analysis of the decision-making and tour formation process: Comparison between seniors and younger individuals. Proceedings of the 90th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Ma, S., Wolfson, O., & Lin, J. (2010). IIP: An event-based platform for ITS applications. Proc. of the 3rd International Workshop on Computational Transportation Science, San Jose, CA.

Ouksel, A., (2010). Collaborative knowledge management and data discovery : The challenges and opportunities ahead. International Symposium on Collaborative Technologies and Systems (CTS), Lombard, IL.

Rashidi, T. H., & Mohammadian, A. (2011). Behavioral housing search choice set formation: A hazard-based screening model of property value and work distance. Proceedings of ASCE's 1st T&DI Congress, Chicago, IL.

Rashidi, T. H., & Mohammadian, A. (2011). Application of gumbel multivariate distribution in a competing duration hazard-based vehicle transaction decision. 90th Annual Meeting of the Transportation Research Board, Washington, D.C.

Rashidi, T. H., & Mohammadian, A. (2010). A competing hazard model of household vehicle transaction behavior with discrete time intervals using multivariate copula model. Proceedings of the 12th World Conference on Transport Research (WCTR), Lisbon, Portugal.

Rashidi, T. H., & Mohammadian, A. (2010). A behavioral housing search model: A combined hazard-based and mixed logit approach. Proceedings of the 12th World Conference on Transport Research (WCTR).

Rashidi, T. H., Mohammadian, A., & Koppelman, F. S. (2010). Modeling interdependencies between vehicle transaction, residential relocation and job change. Proc. of IVth World Conference of Spatial Econometrics Association, Chicago, IL.

Ruan, M., Lin, J., & Kawamura, K. (2011). Modeling commercial vehicle daily tour chaining. 90th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Samimi, A., Kawamura, K., & Mohammadian, A. (2011). A disaggregate analysis of rail-truck mode choice behaviors for freight shipments. 90th Annual Meeting of the Transportation Research Board, Washington, D.C.

Samimi, A., Mohammadian, A., & Kawamura, K. (2010). Freight demand microsimulation in the US? Proceedings of the 12th World Conference on Transport Research (WCTR), Lisbon,

Portugal.

Szczurek, P.*, Xu, B.*, Wolfson, O., & Lin, J. (2010). Prioritizing travel time reports in peer-to-peer traffic dissemination. 7th IEEE, IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP) 2010, Newcastle, UK.

Szczurek, P.*, Xu, B.*, & Wolfson, O., & Lin, J. (2010). Estimating relevance of information in a VANET environment. VANET'10 Workshop on Vehicular Inter-Networking, Chicago, IL.

Szczurek, P.*, Xu, B.*, Lin, J., Wolfson, O. & Rische, N. (2010). Prioritizing travel time reports in peer-to-peer traffic dissemination. Proceedings of the 7th IEEE and IET International Symposium on Communication Systems, Networks and Digital Signal Processing, Newcastle upon Tyne, United Kingdom.

Szczurek, P.*, Xu, B.*, Lin, J., & Wolfson, O. (2010). Learning the relevance of parking information in VANETs. Proc. of the 7th ACM International Workshop on Vehicular Inter-NETworking (VANET), Chicago IL.

Tang, L., & Thakuriah, P. (2011). Will the psychological effects of real-time transit information systems lead to ridership gain? Proc. 88th Transportation Research Board Annual Conference.

Thakuriah, P. (2011). Analysis of cost-effectiveness of employment transportation services. Proc. 88th Transportation Research Board Annual Conference.

Thakuriah, P., Soot, S., Cottrill, C.*, Tilahun, N., Blaise, E., & Vassilakis, W. (2011). Integrated and continuing transportation services for seniors: Case studies of new freedom program. Proc. 88th Transportation Research Board Annual Conference.

Thakuriah, P., & Tilahun, N. (2011). Incorporating weather information into real-time speed estimates: Comparison of alternative models. Proc. 88th Transportation Research Board Annual Conference.

Thakuriah, P., Tilahun, N., Soot, S., & Vassilakis, W. (2010). Mobility for persons with disabilities: Examining the case of new freedom service users. ACSP Annual Conference, Minneapolis, MN.

Thakuriah, P., Cottrill, C.*, Thomas, N., & Vaughn, S*. (2010). Sketch planning methodology for determining interventions in bicycle and pedestrian crashes: An ecological approach. Proceedings of 89th Transportation Research Board Annual Conference, Washington, D.C.

Thiagarajan, A., Biagioni, J.*, Gerlich, T.*, & Eriksson, J. (2010). Cooperative transit tracking using smart-phones. Proceedings of SenSys 2010, (pp. 85-98).

Trajcevski, G., Chouhdary, A., Wolfson, O., Ye, L., Li, G. (2010). Uncertain range queries for necklaces. Proc. of the 11th International Conference on Mobile Data Management, Kansas

City, MO (pp.199-208). Best paper award.

Vallamsundar, S., & Lin, J. (2010). U.S. EPA emission models: MOVES vs MOBILE: A comparison of GHG and criteria pollutants, International Conference on Advances in Civil Engineering, Trivandrum, State of Kerela, India.

Vallamsundar, S., & Lin, J. (2011). MOVES versus MOBILE: A comparison of GHG and Criteria Pollutant Emissions. 90th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Wolfson, O., & Xu, B.*, (2010). Spatio-temporal information in intelligent transportation systems. Proceedings of the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad hoc Networks, Kansas City, MO.

Yagi, S., Nobel, D., & Mohammadian, A., (2011). Exploratory analysis of intrahousehold joint activity tours: Case study of two cities in Indonesia. 90th Annual Meeting of the Transportation Research Board, Washington, D.C.

Xu, B.*, Linderman, M., Madria, S., & Wolfson, O. (2010). A tactical information management middleware for resource-constrained mobile P2P networks. Proceedings of the 29th IEEE International Symposium on Reliable Distributed Systems (SRDS), New Delhi, India.

Xu, B.*, Wolfson, O., & Lin, J. (2010). Multimedia data in hybrid vehicular networks. Proc. of the 8th International Conference on Advances in Mobile Computing and Multimedia (MOMM), Paris, France.

Auld, J.*, Rashidi, T. H. & Lin, J. (2009). Analysis of national county-level heavy-duty freight truck emissions. 2009 Transportation Land Use Planning and Air Quality Conference,

Denver, CO.

Auld, J. A.* & Mohammadian, A. (2009, December). Activity planning processes in the ADAPTS activity-based modeling framework. Proceedings of the 12th International Conference on Travel Behavior Research, IATBR, Jaipur, India.

Auld, J. A.*, Rashidi, T. H., Mohammadian, A. & Wies, K. (2010, January). Evaluating transportation impacts of forecast demographic scenarios using population synthesis and data transferability. Proceedings of the 89th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Auld, J. A.*, Frignani, M. Z., Mohammadian, A. & Nelson, P. (2010, May). Results and empirical analysis of activity planning from the UTRACS prompted-recall survey. 3rd International Conference on Innovations in Travel Modeling (ITM) of the Transportation Research Board (TRB), Tempe, Arizona.

Auld, J. A.* & Mohammadian, A. (2010, May). Progress in the development of the ADAPTS dynamic activity-based microsimulation model. Proceedings of the 3rd International Conference on Innovations in Travel Modeling (ITM) of the Transportation Research Board (TRB), Tempe, Arizona.

Ayala, D.*, Lin, J., Wolfson, O., Rische, N., & Tanizaki, M. (2010). Communication reduction for floating car data-based traffic information systems. Proceedings of the Second International Conference on Advanced Geographic Information Systems, Applications, and Services (GeoProcessing 2010), St. Maarten, Netherlands Antilles.

Bisht, P., Sistla, A. P. & Venkatakrishnan, V. N. (2010, January). Automatically preparing safe SQL queries. Fourteenth International Conference on Financial Cryptography and Data Security '10, Tenerife, Canary Islands, Spain.

Booth, J.*, Di Eugenio, B., Cruz, I., & Wolfson, O. (2009). Query Sentences as Semantic (Sub) Networks. The 3rd IEEE International Conference on Semantic Computing (ICSC). Berkeley, CA, USA., pp. 89-94.

Chadha, R., Sistla, A. P. & Viswanathan, M. (2009, September). Power of randomization in automata on infinite strings, 20th International Conference on Concurrency Theory, Bologna, Italy.

Eduardo, D., Fang, F., Sistla, A. P., Yu, C. & Meng, W. (2009, August). Stop word and related problems in web interface integration. 35th International Conference on Very Large Database Systems, Lyon, France.

Gondi, K., Patel, Y. & Sistla, A. P. (2009). Monitoring the full range of omega-regular properties of stochastic systems. Proceedings of the 10th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI2009), Savannah, Georgia.

Kawamura, K. & Rashidi, L. H. (2009). Economic, Environmental, and Congestion Impacts of Trucking". Proceedings of the Sixth International Conference on City Logistics, Puerto

Vallarta, Mexico.

Lu, Y. & Kawamura, K. (2010). Data mining approach to the work trip mode choice analysis in the Chicago Area. Proceedings of the 89th TRB Annual Meeting.

Lundquist, D.* & Ouksel, A. M. (2009). Distributed delay: Improving network throughput by reducing temporal saturation. Proceedings of the IEEE NTMS, Cairo, Egypt, 2009. <http://dx.doi.org/10.1109/NTMS.2009.5384660>.

Pu, W. & Lin, J. (2010, January). Estimation of urban street segment travel time using buses as real-time speed probes. Proceedings of (Compendium DVD) 89th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Rashidi, T. & Mohammadian, A. (2009, June). A dynamic hazard-based structural equations model of vehicle ownership with endogenous residential and job location changes incorporating group decision making. Proceedings of the 4th International Transport Economics Conference, University of Minnesota.

Rashidi, T. H., Mohammadian, A. & Koppelman, F. (2009, December). An integrated model of housing, job, and vehicle ownership decisions: a simultaneous system of hazard-based equations with random and group decision-making effects. Proceedings of the 12th International Conference on Travel Behavior Research, IATBR, Jaipur, India.

Rashidi, T., Mohammadian, A. & Koppelman, F. (2010, January). Modeling interdependencies between vehicle transaction, residential relocation, and job change. Proceedings of the 89th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Rashidi, T. & Mohammadian, A. (2010, January). Behavioral housing search choice set formation: Hazard-based screening model of property value and work distance. Proceedings of the 89th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Rashidi, T. & Mohammadian, A. (2010, January). Household travel attribute transferability analysis: Application of hierarchical rule-based approach. Proceedings of the 89th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Ruan, M., Lin, J. & Kawamura, K. (2009, October). Comparing the efficiency of commercial vehicle daily tours in star and loop trip chaining patterns in Texas urban areas. Proceedings of the 2009 National Urban Freight Conference (NUFC), Long Beach, CA.

Ruan, M. & Lin, J. (2010, January). A synthesis framework for generating county level freight data using public sources for spatial autocorrelation analysis. Proceedings of (Compendium DVD) 89th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Ruan, M., Lin, J. & Kawamura, K. (2010, January). Modeling urban commercial vehicle daily tour scheduling using the Texas commercial vehicle survey data. Proceedings of (Compendium DVD) 89th Transportation Research Board Annual Meeting. National

Research Council, Washington, D.C.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). A national-level micro-simulation for goods movement in the United States: Data and method. TRBs Data and Tools for Linking Goods Movement, Air Quality, and Transportation Infrastructure Decisions Workshop, Irvine, CA.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). Freight movement modeling: Methodology and data needs, TRANSLOG 2009 (Transportation and Logistics) 1st Annual International Conference, McMaster University, Hamilton, ON, Canada.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). A behavioral national freight model: Data and method. Proceedings of the 4th International Transport Economics Conference, University of Minnesota.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). An online freight survey in the US. Proceedings of Transport Chicago Conference, Chicago, IL.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, July). Behavioral freight movement modeling. Proceedings of the 2009 IEEE International Conference on Service Operations, Logistics and Informatics, Chicago, IL.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, December). Behavioral freight movement modeling: Methodology and data. Proceedings of the 12th International Conference on Travel Behaviour Research, IATBR, Jaipur, Rajasthan, India.

Samimi, A., Mohammadian, A. & Kawamura, K. (2010, January). Online freight shipment survey in the United States: Lessons learned and nonresponse bias analysis. Proceedings of the 89th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

Samimi, A., Mohammadian, A. & Kawamura, K. (2010, May). Progress in the development of the ADAPTS Dynamic activity-based microsimulation model. Proceedings of the 3rd International Conference on Innovations in Travel Modeling (ITM) of the Transportation Research Board (TRB), Tempe, Arizona.

Scuturici, V-C., Suci, D-M., Vuillemot, R., Brunie, L. & Ouksel, A. M. (2010). Detecting anomalies in data streams using statecharts. Proceedings de Journees Francophones Extraction and Gestion des Connaissances, Hammamet, Tunisia.

Szczurek, P.*, Xu, B.*, Lin, J. & Wolfson, O. (2009). Machine learning approach to report prioritization with an application to travel time dissemination. Proceedings of the Second International Workshop on Computational Transportation Science (IWCTS), Seattle, WA, pp. 31-36.

Thakuriah, P., Cottrill, C.*, Thomas, N. & Vaughn, S.* (2010). Sketch planning methodology for determining interventions in bicycle and pedestrian crashes: An ecological approach. Proceedings of 87th Transportation Research Board. Annual Conference.

Thiagarajan, A., Ravindranath, L., LaCurts, K., Madden, S., Balakrishnan, H., Toledo, S., & Eriksson, J. (2009, November). VTrack: accurate, energy-aware road traffic delay estimation using mobile phones. Proceedings ACM SenSys 2009, Berkeley, CA.

Wolfson, O., Xu, B.* & Cho, H. (2009). Multimedia traffic information in vehicular networks. Proceedings of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Seattle, WA, pp. 480-483.

Xu, B.*, Vafaei, F. & Wolfson, O. (2009). In-network query processing in mobile P2P databases. Proceedings of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Seattle, WA, pp. 207-216.

CTS-IGERT trainees are marked with an asterisk *

*Auld, J.A., A. Mohammadian and S.T. Doherty (2008). Modeling Activity Scheduling Conflict Resolution Strategies. In Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

*Auld, J.A., A. Mohammadian and M.J. Roorda (2009). ADAPTS: Agent-based Dynamic

Activity Planning and Travel Scheduling Model - A Framework. Proceedings of the 88th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

*Auld, J.A., A. Mohammadian and M.J. Roorda (2009). Implementation of a Scheduling Conflict Resolution Model in an Activity Scheduling System. Proceedings of the 88th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

*Auld, J.A., A. Mohammadian and K. Wies (2008). Population Synthesis with Control Category Optimization. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

*Auld, J.A., A. Mohammadian and S.T. Doherty (2008). Analysis of Activity Conflict Resolution Strategies. Proceedings of the 87th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C., January 13-17, 2008.

*Auld, J.A., A. Mohammadian and K. Wies (2008). Population Synthesis with Region-Level Control Variable Aggregation. Proceedings of the 87th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C., January 13-17, 2008.

*Auld, J.A., *C. Williams and A. Mohammadian (2008). Activity-Travel Surveying Using GPS Technology. Presentation to the New Technologies Subcommittee of the Travel Survey Methods Committee at the 87th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13-17, 2008.

*Auld, J., *Williams C., and Mohammadian A. (June 2008). Prompted Recall Travel Surveying with GPS, In Proceedings of Transport Chicago, Chicago, IL.

Aras H., Beckstein C., Buchegger S., Dittrich P., Hubauer T., Klan F., Knig-Ries B., Wolfson O. (2008). Uncertainty and Trust. Proc. of the Dagstuhl Invitational Seminar 08421: Uncertainty Management in Information Systems, Dagstuhl, Germany.

*Biagioni, J. P. *Szcurek P. M, Nelson P.C., and Mohammadian A. (January 2009). Tour-Based Mode Choice Modeling: Using an Ensemble of Conditional and Unconditional Data Mining Classifiers, In Proceedings of the 88th Annual Meeting of the Transportation Research Board, (DVD), Washington, D.C.

*Booth J., Sistla P., Wolfson O., and Cruz I. (2009). A Data Model For Trip Planning in Multimodal Transportation Systems. 12th International Conference on Extending Database Technology, EDBT, Saint-Petersburg, Russia (pp. 994-1005), New York, New York: The Association for Computing Machinery, Inc.

Capizzi R., Longo A. and Venkatakrisnan V.N., Sistla A.P. (2008, December). Preventing Information Leaks Through Shadow executions. In the Annual Computer Security Applications Conference (ACSAC 2008). Anaheim, California.

Chadha R., Sistla A.P., Viswanathan M. (2008, June). On the Expressiveness and Complexity of Randomization in Finite State Monitors, IEEE Symposium on Logic in Computer Science (LICS'08). Pittsburgh, Pennsylvania.

Chadha, R., Sistla, A.P., Viswanathan M. (2009, to appear). On the Expressiveness and Complexity of Randomization in Finite State Monitors. To appear in the Journal of the Association for Computing Machinery.

Chen X., Schonfeld D., and Khokhar A., (2009). Localization and trajectory estimation of mobile object using minimum samples, IEEE Transactions on Vehicular Technology (TVT), accepted to appear, 2009.

*Cottrill, C. and P. Thakuriah (2008). GPS Use by Households: Early Indicators of Privacy Preferences. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

*Cottrill, C. and P. Thakuriah (2008). GPS Adoption by Households: Evidence from a Household Travel Survey. Published in the peer-reviewed proceedings of MobiQuitous 2008, First International Workshop on Computational Transportation Science IWCTS, held in conjunction with: The Fifth International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services. Dublin, Ireland.

*Cottrill, C. (2009). Overview of Approaches to Privacy Preservation in Intelligent Transportation Systems and Vehicle Infrastructure Integration Initiative. Proceedings of 88th Transportation Research Board Annual Conference. (Also forthcoming in the Transportation Research Record.) Washington, D.C.

Cruz, Isabel F., Gjomemo, Rigel, Lin, Benjamin and Orsini, Mirko. (2008). A Constraint and Attribute Based Security Framework for Dynamic Role Assignment in Collaborative Environments, 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom), (pp. 1-18). New York: Springer.

Cruz, Isabel F., Gjomemo R., Lin, B. and Orsini M. (2008). A Location Aware Role and Attribute Based Access Control System (Demo Paper), 16th ACM SIGSPATIAL International Symposium on Advances in Geographic Information Systems (ACM GIS) Irvine, California, (pp. 527-528). New York, New York: The Association for Computing Machinery, Inc.

Cruz, Isabel F, Gjomemo R., and Orsini M.(2008). A Secure Mediator for Integrating Multiple Level Access Control Policies. In the 12th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES), Session on XML Security, ed. E. Damiani, (pp. 354-362). Zagreb, Croatia. New York: Springer.

Eriksson, J., Balakrishnan, H. and Madden, S. (2008). Cabernet: A WiFi-Based Vehicular Content Delivery Network. In ACM/IEEE MobiCom 2008, {acceptance rate 11.7\%}. New York, New York: The Association for Computing Machinery, Inc.

Eriksson, J., Girod L., Hull B., Newton R., Madden S., and Balakrishnan H, (2008). The Pothole Patrol: Using a Mobile Sensor Network for Road Surface Monitoring. In ACM MobiSys 2008, {acceptance rate 17.8\%}. New York, New York: The Association for Computing Machinery, Inc.

Goce Trajcevski, Roberto Tamassia, Hui Ding, Peter Scheuermann, and Isabel F. Cruz. (2009). Continuous Probabilistic Nearest-Neighbor Queries for Uncertain Trajectories, 12th

International Conference on Extending Database Technology (EDBT), St. Petersburg, Russia, (pp. 874-885). New York, New York: The Association for Computing Machinery, Inc.

Goce Trajcevski, Ghica O, Scheuermann P., Tamassia R., and Cruz I. (2008). Alternating Multiple Tributaries+Deltas, 5th International Workshop on Data Management for Sensor Networks (DMSN), in conjunction with VLDB, (pp. 28-34). Auckland, New Zealand.

Gondi K, Patel Y., Sistla A.P. (2009). Monitoring the Full range of Omega-regular properties of Stochastic Systems. In the Proceedings of the 10th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI2009). Savannah, Georgia.

Haran, J., Mohammadian A., and Nelson P. (2008, July). Intelligent Traveler Assistant (ITA) Simulation Platform Design, First International Workshop on Computational Transportation Science, The 5th Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services, MOBIQUITOUS 2008, Trinity College Dublin, Ireland.

Ilarri S., Wolfson O., Mena E., Illarramendi A., Sistla P. (2009). A Query Processor for Prediction-Based Monitoring of Data Streams, 12th International Conference on Extending Database Technology. Saint-Petersburg, Russia.

Lu, Y.D., and Kawamura, K. (2008). Simulation and Investigation of the Path Dependency of Transportation Policy. In 4th Joint Congress of ACSP/AESOP. Chicago, Illinois.

Lu, Y.D., Kawamura K., and Zellner M. (2008). The Influence of Urban Forms on Work Travel Behavior: an Exploration Using Agent-Based Modeling. Transportation Research Record 2082, Transportation Research Board, (pp. 132 140). Washington, D.C.

Luo Y., Wolfson O., Xu B. (2008). Mobile Local Search via P2P Databases. Proc. Of Portable 2008: the 2nd IEEE International Interdisciplinary Intersociety Conference on Portable Information Devices (PIDs), (pp. 1-6). Garmisch-Partenkirchen, Germany.

*Lundquist, D., (September, 2008). The Hidden Problem of Uninformed Online Product Reviewers. In Semantic Web Architectures for Enterprises (SWAE), Torino, Italy.

Long, L., Lin J., Pu W. (2009). Model-Based Synthesis of Household Travel Survey Data in Small- and Mid-Size Metropolitan Areas. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Long, L., Lin J., Prousaloglou K. (2009). Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C..

Mohammadian, A., (2008, September). Travel Data Simulation Tool, In Proceedings. of the 11th National Conference on Transportation Planning for Small and Medium-Sized Communities, TRB, Portland, Oregon.

Ouksel A., *Lundquist D. (2008). Dynamic Subscription Permission: Extending the Depth of Demand-Controlled Flooding, Proceedings of IEEE APSCC. Taiwan.

Ouksel, A. Bonifati, A, Chrysanthis P.K., Sattler K.U.) (2008).
<http://doi.acm.org/10.1145/1374780.13747811>. Distributed Databases and Peer-to-Peer Databases: Past and Present.,
<http://www.informatik.unitrier.de/%7Eley/db/journals/sigmod/sigmod37.html#BonifatiCOS08>
SIGMOD Record 37(1): 5-11.

Ouksel A., Limam L., Benbernou S., Hacid M., Illarramendi A. (2008). Mapping Discovery in P2P databases: a query-based approach. In the Sixth International Workshop on Databases, Information Systems, and Peer-to-Peer Computing, Sixth International Workshops, DBISP2P 2008. Auckland, New Zealand.

Ouksel A., Elkhoury V. and Benani N. (2009). Distributed Key Management in Dynamic Outsourced Databases: a Trie-Based Approach. The First International Conference on Advances in Databases, Knowledge, and Data Applications, DBKDA 2009. Cancun, Mexico.

Pu, W., Lin, J. (2008). Toward the Use of AVL Buses as Probes for Regular Vehicle Traffic Conditions Estimation: A Literature Review, Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York, NY.

Pu, W., Lin J. (2008). Toward the Use of AVL Buses as Probes for Regular Vehicle Traffic Conditions Estimation: A Literature Review, Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York, NY.

Pu, W., Lin J. (2009). Real-Time Estimation of Urban Street Travel Time Using Buses as Speed Sensors. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C..

Rashidi, T., and A. Mohammadian (2008, October). Impact of Changing Demographics on Household- and Individual-Level Travel Attributes. In TRB's Conference on Impact of Changing Demographics on the Transportation System, Washington DC.

Rashidi, T. H., Mohammadian, A. (2009, January). Competing Hazard Model of Household Vehicle Transaction Behavior with Discrete Time Intervals and Unobserved Heterogeneity. In Proceedings of the 88th Annual Meeting of the Transportation Research Board, (DVD), Washington, D.C..

Rashidi, T. H., Mohammadian A., and Koppelman F. (March 30-April 1, 2009). A Dynamic Hazard-Based Structural Equations Model of Vehicle Ownership with Endogenous Residential and Job Location Changes Incorporating Group Decision Making, 1st International Choice Modeling Conference, Harrogate, UK.

Rashidi, T. H., Mohammadian A., and Zhang Y. (2009). Travel Behavior and the Effects of Household Demographics and Lifestyles. In Proceedings of the 88th Annual Meeting of The Transportation Research Board, (DVD), Washington, D.C.

Rodriguez, J., and K. Kawamura. (2008). *FREQ Simulation and Ramp Meter HOV Bypass Optimization for the Northwest Study Area*. Transport Chicago 2008. Illinois Institute of Technology. Chicago, Illinois.

Roosa, E. and Kawamuram, K. (2008). *Making Truck-Rail Intermodal Competitive*. 4th Joint Congress of ACSP/AESOP. Chicago, Illinois.

Ruan, M., Lin J. (2008). *An Investigation in Synthesis Methods of Generating High Geographic Resolution Freight Data*, Proceedings of the 13th International Conference of the Hong Kong Society for Transportation Studies, Hong Kong.

Samimi, A., and A. Mohammadian, (2008, June). *Sustainable Development: Examining the Impacts of Built-Environment and Transportation on Public Health*, Proc. of Transport Chicago, Chicago, IL.

Subba, B. Di Eugenio, B. (2009, to appear June). *An effective Discourse Parser that uses Rich Linguistic Information*. NAACL-HLT 2009, the Conference of the North American Chapter of the Association for Computational Linguistics. Boulder, CO.

Thakuriah, P., *Cottrill, C. and Gustafson, T. (2008). *A Networked Approach to Planning for Deployment of Intelligent Transportation Systems*. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

Thakuriah, P. G. Yanos, J. Lin, P. Metaxatos, R. Sulo, W. Pu and L. Mbekeani (2008). *Including Weather Effects in Real-Time Traffic Information Environment - Exploratory Analysis and Alternative Models*. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

Thakuriah, P., Yanos G., Lin J. Metaxatos P., Sulo R., Pu W., Mbekeani L. (2008). Including Weather Effects in a Real-Time Traffic Information Environment-Comparison of Alternative Models. Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York City, New York.

*Williams, C., A. Mohammadian, P. Nelson, and S. Doherty, (2008, July) Mining Sequential Association Rules For Traveler Context Prediction. In the First International Workshop on Computational Transportation Science at The 5th Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services, MOBIQUITOUS 2008, July 21, 2008 - Trinity College Dublin, Ireland.

*Williams, Chad A., Nelson Peter C. and Mohammadian, Albofazi (2009, July). Attribute Constrained Rules For Partially Labeled Sequence Completion. To appear in the Proceedings of the 9th Industrial Conference on Data Mining (ICDM'2009). Leipzig, Germany.

Wolfson O. (2009). MOBI-DIK: An Approach to Querying Data in a Mobile Ad Hoc Network. Proc. of the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Adhoc Networks. St. Louis, MO.

Zhang, Y., and Mohammadian A., (2008). Synthetic Household Travel Survey Data Simulation. In the Proceedings of the 3rd International Symposium on Transport Simulation, Gold Coast, Queensland, Australia.

Zhong T., Xu B., *Szcurek P., and Wolfson O. (2008). TRAFFICINFO: An Algorithm for VANET Dissemination of Real-time Traffic information. In the Proceedings of the 15th World Congress on Intelligent Transportation Systems. New York, NY.

Zhong T., Xu B., Wolfson O. (2008). Disseminating Real-Time Traffic Information in Vehicular Ad-Hoc Networks. Plenary presentation, Proc. of the IEEE Intelligent Vehicles Symposium, (pp. 1056-1061). Eindhoven, The Netherlands, (plenary presentation acceptance rate is 10%).

Zhu X., Xu B., Wolfson O. (2008). Spatial Queries in Disconnected Mobile Networks. Proc.

of 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008 Irvine, CA), (pp. 337-346). New York, New York: The Association for Computing Machinery, Inc.

Barhamgi, M., Champin, P. A., Benslimane, D., & Ouksel, A. M. (2007). Backing Web Service-Accessed Data Sources in Loosely Coupled Information Systems. In J. Krogstie, A. L. Opdahl & G. Sindre (Eds.), *Proceedings of the 19th International Conference on Advanced Information Systems Engineering* (pp. 531-545). Trondheim, Norway: Springer Lecture Notes in Computer Science.

Barreto, A., Wongsaroj, B., King, T. M., Cameron, T., Diaz, S. V., Cilli, J., Muqueet, A., Bullard, S. D., Adjouadi, M., Wolfson, O., Graham, S., and Rishe, N. (2007). Evaluation criteria for self-management in DBMSs. In B. Granville, N. S. Kutti, M. Missikoff, & N. T. Nguyen (Eds.), *Proceedings of the International Conference on Enterprise Information Systems and Web Technologies* (pp. 14-20). Orlando, FL: ISRST.

Lundquist, D.* & Ouksel, A. (2007). An efficient demand-driven and density-controlled publish/subscribe protocol for mobile environments. In H. A. Jacobsen, G. Muhl, & M. A. Jaeger (Eds.) *Proceedings of the 2007 Inaugural International Conference on Distributed Event-Based Systems* (pp. 26-37). New York, NY: The Association for Computing Machinery, Inc.

Luo, Y., Wolfson, O., and Xu, B. (2008). The role of auto-ID technologies in mobile databases for E-Commerce (Vision Paper). In *Proceedings of the International Workshop on RFID Data Management* (pp. 108-109).

Rishe, N., Wolfson, O., Wongsaroj, B., Small, D., Alarcon, M., Lorenzo, N., Koller, R., Kundu, S., Graham, S., Alexander, K., and Adjouadi, M. (2007). Schema based XML compression, In B. Granville, N. S. Kutti, M. Missikoff, & N. T. Nguyen (Eds.), *Proceedings of the International Conference on Enterprise Information Systems and Web Technologies* (pp. 1-6). Orlando, FL: ISRST.

Tanizaki, M. and Wolfson, O. (2007). Randomization in traffic information sharing systems. In H. Samat, M. Schneider, & C. Shahabi (Eds.), *Proceedings of the 15th ACM International Symposium on Advances in Geographic Information Systems* (pp. 23-30). New York, NY: The Association for Computing Machinery, Inc.

Wolfson, O. (2007). Computational Transportation Science (Position Paper). In Proceedings of the Workshop on Advanced Research in Geospatial Information Technologies for Transportation (GIS-T), Washington DC.

Xu, B., Wolfson, O., Rische, N. D., Naiman, C., and Tanner, R. M. (2007). A feasibility study on disseminating spatio-temporal information via vehicular ad-hoc networks. In Proceedings of the Third International Workshop on Vehicle-to-Vehicle Communications (V2VCOM), Istanbul, Turkey, In Press.

Conference Presentations

Tang, Lei and Thakuriah, Piyushimita. "An Analysis of Behavioral Responses to Real-Time Transit Information." Paper presented at Association of Collegiate Schools of Planning 47th Annual Conference, Fort Worth, TX, USA. November 10, 2006, Association of Collegiate Schools of Planning.

Mohammadian, Abolfazl and Yagi, Sadayuki. "Activity-Based Simulation Modeling of Travel Demand for Estimation of Mobile Emissions and Air Quality Analysis: A Case Study of Jakarta Metropolitan Area." Paper presented at Better Air Quality, Yogyakarta, FO, Indonesia. December 13, 2006, Clean Air Initiative for Asian Cities (CAI-Asia), Ministry of Environment, Province of Yogyakarta, City of Yogyakarta.

Yagi, Sadayuki and Mohammadian, Abolfazl. "Transportation Policy Analysis Using an Activity-Based Microsimulation Model of Travel Demand." Paper presented at 53rd Annual North American Meetings of the Regional Science Association International, Toronto, FO, USA. November 17, 2006, North American Regional Science Council.

Ouksel, Aris M. "The Promise of Sensor Networks to Revolutionize our Environment: Research Challenges and Applications." Paper presented at International Conference on Pervasive Services, Lyon, FO, France. June 28, 2006, Institute of Electrical and Electronics Engineers, Inc.

Ouksel, Aris M. "Organizational Complexity: Co-emergence of Meaning, Context, Systems and Communities." Paper presented at International Conference on Signal-Image Technology and Internet-Based Systems, Hammamet, FO, Tunisia. December 19, 2006, Institute of Electrical and Electronics Engineers, Inc.

Wolfson, Ouri; Xu, Bo; Yin, H; and Cao, H. "Search-and-Discover in Mobile P2P Network Devices." Paper presented at The 26th International Conference on Distributed Computing Systems, Lisboa, FO, Portugal. July 07, 2006, IEEE Computer Society Technical Committee On Distributed Processing, LASIGE.

Pu, Wenjing; Long, Liang; Tandon, Sonali; and Mohammadian, Abolfazl. "Modeling Household Automobile Holding and Type-Choice Behavior." Paper presented at Transport Chicago Conference, Chicago, IL, USA. June 02, 2006, Transport Chicago.

Dranger, Stephen; Sloan, Robert H.; and Solworth, Jon A. "The Complexity of Discretionary Access Control." Paper presented at First International Workshop on Security, Kyoto, FO,

Japan. October 24, 2006, The Institute for Electronics, Information and Communication Engineers, Information Processing Society of Japan.

Sriraj, P S.; Minor, Mark; and Thakuriah, Piyushimita. "A Spatial Decision Support System for Transit and Housing Markets using the Analytic Hierarchy Process and Interactive GIS." Paper presented at 9th International Conference on Applications of Advanced Technology in Transportation, Chicago, IL, USA. August 15, 2006, Transportation & Development Institute of the American Society of Civil Engineers Committees on Advanced Technology and Infrastructure Systems, University of Illinois at Chicago.

Ouksel, Aris M.; Jurca, Oana; Podnar, Ivana; and Aberer, Karl. "Efficient Probabilistic Subsumption Checking for Content-based Publish/Subscribe Systems." Paper presented at 7th International Middleware Conference, Melbourne, FO, Australia. November 30, 2006, Association for Computing Machinery.

Trajcevski, G; Cao, H; Scheuermann, P; Wolfson, Ouri; and Vaccaro, D. "On-Line Data Reduction and the Quality of History in Moving Objects Databases." Paper presented at 5th ACM International Workshop on Data Engineering for Wireless and Mobile Access, Chicago, IL, USA. June 25, 2006, Association for Computing Machinery.

Luo, Yan; Wolfson, Ouri; and Xu, Bo. "A Spatial-Temporal Approach for Selective Data Dissemination in Mobile Peer-to-peer Networks." Paper presented at Third International Conference on Wireless and Mobile Communications, Guadeloupe, FO, French Caribbean. March 07, 2007, International Academy, Research, and Industry Association.

Wolfson, Ouri and Xu, Bo. "Mobile Peer-to-peer Data Dissemination with Resource Constraints." Paper presented at 8th International Conference on Mobile Data Management, Mannheim, FO, Germany. May 08, 2007, IEEE Computer Society, infos.

Haran, James G.; Dillenburg, John F.; and Nelson, Peter C. "Real-time Automated Image Processing Algorithms for the Detection of Road and Environmental Conditions." Paper presented at 9th International Conference on Applications of Advanced Technology in Transportation, Chicago, IL, USA. August 14, 2006, Transportation & Development Institute of the American Society of Civil Engineers Committees on Advanced Technology and Infrastructure Systems, University of Illinois at Chicago.

Fan, Peng; Mohammadian, Abolfazl; Nelson, Peter C.; Haran, James G.; and Dillenburg, John F. "A Novel Direction Based Clustering Algorithm in Vehicular Ad Hoc Networks." Paper presented at 86th Annual Meeting of the Transportation Research Board, Washington, DC, USA. January 23, 2007, Transportation Research Board.

Zhang, Yongping and Mohammadian, Abolfazl. "Enhancing the Quality of Transferred Household Travel Survey Data: A Bayesian Updating Approach Using MCMC with Gibbs Sampling." Paper presented at 11th TRB Transportation Planning Application Conference, Daytona Beach, FL, USA. May 07, 2007, Transportation Research Board, Florida Department of Transportation.

Yagi, Sadayuki and Mohammadian, Abolfazl. "Microsimulation and Policy Applications of

an Activity-Based Modeling System of Travel Demand." Paper presented at 86th Annual Meeting of the Transportation Research Board, Washington, DC, USA. January 24, 2007, Transportation Research Board.

Yagi, Sadayuki and Mohammadian, Abolfazl. "Policy Simulation for New Bus Rapid Transit and Area Pricing Alternatives Using an Opinion Survey in Jakarta." Paper presented at 86th Annual Meeting of the Transportation Research Board, Washington, DC, USA. January 22, 2007, Transportation Research Board.

Burke, Robin; Mobasher, Bamshad; *Williams, Chad A.; and Bhaumik, Runa. "Detecting Profile Injection Attacks in Collaborative Recommender Systems." Paper presented at 8th IEEE Conference on E-Commerce Technology (CEC'06), San Francisco, CA, USA. June 28, 2006, IEEE Computer Society Technical Committee on Electronic Commerce.

Vallamsundar, S., & Lin, J. (2014, June) Using Activity Based Travel Data to Quantify Emissions-to-Population Exposure Relationship from Transportation Sources. Oral Presentation at the 2014 A&WMA Annual Conference & Exhibition, Long Beach, CA, June 24-27, 2014

Wolfson, O., & Lin, J. (2014, November). A marketplace for spatio-temporal resources and truthfulness of its users. Oral Presentation at the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science, Dallas, Texas. November, 2014.

Chen, Z., Yin, Y., He, F., & Lin, J. L. (2015, January). Parking Reservation for Managing Downtown Curbside Parking. Poster Presentation at Transportation Research Board 94th Annual Meeting (No. 15-5008), Washington D.C., January 11-15, 2015

Zhou, W., Chen, Q.*, & Lin, J. (2015, January). Green Vehicle Routing Problem Considering Joint Effect of Vehicle Load and Speed. Poster Presentation at Transportation Research Board 94th Annual Meeting (No. 15-1112), Washington D.C., January 11-15, 2015

Lin, J., Szczurek, P.*, Wolfson, O., & Xu, B.* (2015, January) The Observe-Driver-and-Learn Platform for the Development of VANET Safety Applications. Poster Presentation at Transportation Research Board 94th Annual Meeting (No. 15-4657), Washington D.C., January 11-15, 2015

Zhou, W., & Lin, J. (2014, November) The Dynamic Pollution-Routing Problem with time-dependent travel time. Oral Presentation at the INFORMS Annual Meeting 2014, San Francisco, CA, November 9-12, 2014

Padhariya, N., Wolfson, O., Mondal, A., Gandhi, V., & Madria, S. K. (2014, July). E-VeT: Economic Reward/Penalty-Based System for Vehicular Traffic Management. Oral Presentation at IEEE 15th International Conference on Mobile Data Management (MDM), 2014,(Vol. 1, pp. 99-102). IEEE.

Ma, S., Wolfson, O., & Xu, B.* (2014, November). UPDetector: Sensing Parking/Unparking Activities Using Smartphones. Oral Presentation at the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science, (pp. 76-85). ACM, Dallas, Texas.

November, 2014.

Blei, A. *, Kawamura, K., Javanmardi, M. *, & Mohammadian, A. (2015, January). Evaluation of VMT Estimation Methods Using GPS Travel Survey Data. Poster Presentation at Transportation Research Board 94th Annual Meeting (No. 15-5811), Washington D.C., January 11-15, 2015

Vallamsundar, S., J. Lin (2014, January) Investigation in Transportation Conformity Particulate Matter Hot-spot Air Quality Modeling - Illinois Highway and Arterial Case Studies, Workshop on Project Level Applications of EPA's Quantitative PM Hot-spot Guidance, Poster presented at the 2014 Transportation Research Board Annual Meeting, Washington D.C.

Vallamsundar, S., J. Lin (2014, March) Characterizing Local Health Effects Due to PM Exposure from Mobile Sources, Poster presented at the 2014 Transportation Planning, Land Use and Air Quality Conference, Charlotte, NC

Zhou, W., J. Lin (2014, February) Empirical Study of Urban Commercial Vehicle Tour Patterns in Texas, Poster presented at the Logistics, Trade and Transportation (LTT) Symposium, Gulfport, Mississippi.

Ayala, D. *, Wolfson, O., Xu, B. *, DasGupta, B., & Lin., J. (2012) Parking in Competitive Settings: A Gravitational Approach, Oral Presentation at 13th International Conference on Mobile Data Management, Bengaluru, India, July 23-26, 2012.

Ayala, D. *, Wolfson, O., Xu, B. *, DasGupta, B., & Lin., J. (2012) Stability of Marriage and Vehicular Parking, Oral Presentation at 2nd International Workshop on Matching Under Preferences, Budapest, Hungary, July 19-20, 2012.

Ayala, D. *, Wolfson, O., Xu, B. *, DasGupta, B., & Lin., J. (2012) Spatio-temporal Matching: Algorithms for Transportation Applications, Oral Presentation at 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, California, November 6-9, 2012.

Ayala, D. *, Wolfson, O., Xu, B. *, DasGupta, B., & Lin., J. (2012) Pricing of Parking for Congestion Reduction, Oral Presentation at 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, California, November 6-9, 2012.

Biagioni, J. * & Eriksson, J. (2012) Inferring Road Maps from GPS Traces: Survey and Comparative Evaluation. Oral Presentation at 91st Annual Meeting of the Transportation Research Board.

Blei, A.M.* (2012) A taxonomy of commuting patterns for a sample of 40 U.S. Urban Areas. Oral Presentation at American Collegiate Schools of Planning Annual Conference. Cincinnati, Ohio. November, 2012.

Blei, A.M.* & Angel, S. (2012). Trip Distance, Travel Time and Speed Within and Across U.S. Metropolitan Areas. Oral Presentation at American Association of Geographers Annual Meeting. New York, NY. February, 2012.

Blei, A.M.* (2012) The Rational Locator Redux: Evidence from 40 U.S. Urban Areas. Forthcoming. Oral Presentation at American Collegiate Schools of Planning Annual Conference. Cincinnati, Ohio. November, 2012.

Chen, Q.* & Lin, J. (2012) How Carbon Pricing Affects the Efficiency of Urban Delivery Cooperation? Oral Presentation at INFORMS City Logistics Impact Evaluations session, Phoenix, AZ, October 14-17, 2012

Chen, Q.* & Lin, J. (2013) Environmental and cost-benefit evaluation of urban delivery consolidation, Oral Presentation at 2013 CFIRE Student Symposium, February 5-6, 2013, University of Memphis, TN

Javanmardi, M.* & Mohammadian, A. (2012) Integration of TRANSIMS with the ADAPTS Activity-based Model and Applications, Oral Presentation at 13th International Association for Travel Behaviour Research (IATBR) Conference, Toronto, Canada, July 15-19, 2012

Javanmardi, M.*, Auld, J.*, & Mohammadian, A. (2012) Integration of TRANSIMS with the ADAPTS Activity-based Model, Oral Presentation at Innovations in Travel Modeling 2012, Tampa, FL, Apr. 30 - May 2, 2012

Javanmardi, M.* & Mohammadian, A. (2012) Integration of the ADAPTS Activity-based Model and TRANSIMS and Applications, Oral Presentation at Transport Chicago 2012, Chicago, IL, June 1, 2012.

Karimi, B., Mohammadian, A., & Rashidi, T., (2012) "Elderly and non-Elderly People: Differences in Travel Mode Choice Behavior". Oral Presentation at The International Conference on Aging, Mobility and Quality of Life (AMQoL), July 2012, Ann Arbor, MI.**

Karimi, B., Mohammadian, A., & Rashidi, T., (2012), "An Explanatory Analysis of Activity Planning and Travel Scheduling Process of Elderly and non-Elderly People". Oral Presentation at The International Conference on Aging, Mobility and Quality of Life (AMQoL) , July 2012, Ann Arbor, MI.

Karimi, B., Rashidi, T., Mohammadian, A., Sturm, K.* (2013) Young-old Elderly and Baby Boomers: An Explanatory Analysis on the Activity Duration, Time-of-Day Choice, and Planning Time Horizons. Oral Presentation at the 92nd Annual Meeting of the Transportation Research Board, January, 2013.

Karimi, B., Shafahi, Y., Mohammadian, A., Sturm, K.* (2013) A Multiobjective, Stochastic and Capacity-Constrained Static Location Model for Ambulances. Oral Presentation at the 92nd Annual Meeting of the Transportation Research Board, January, 2013.

Li, Q., Chen, Q.*, Nie, Y., Lin, J. & Home-de-Mello, T.,(2012) Optimal Routing for eco-driving under uncertainties. Oral Presentation at Mid-continent transportation research

forum, Madison, WI, Sept 6-7, 2012.

Li, Q., Y. Nie, S. Vallamsundar, J. Lin, and T. Homem-de-Mello (2013) Incorporating Environmental Measures into a Reliable Freight Routing Model, Oral Presentation at the 2013 Transportation Research Board Annual Meeting, Washington D.C., January, 2013

Lin, J., & Zhou, W. (2013) Urban Commercial Vehicle Trip-Chaining: Regional Comparison between Texas and Idaho, Oral Presentation at the 2013 Transportation Research Board Annual Meeting, Washington D.C., January, 2013

Ma, S., Zheng, Y. & Wolfson, O. (2013) T-share: A large-scale dynamic ridesharing service. Oral Presentation at the 29th IEEE International Conference on Data Engineering ICDE'13.

Mugler, E.M.* , Patton, J.L., Slutzky, M.W., (2012) Phonemic differences in cortical representation of overt speech, (2012), Oral Presentation at the Society for Neuroscience annual meeting, New Orleans, LA, October, 2012.

Mugler, E. M.* , Flint, R. D. , Wright, Z.A., Schuele, S.U., Rosneow, J. , Patton, J. L., Slutzky, M. W. (2013) Decoding Articulatory Properties of Overt Speech from Electro-corticography, Oral Presentation at the 5th International BCI Meeting, Asilomar, California, 2013.

Ouksel, A.,(2012) Keynote, Big Data: Challenges of Automated Information Factories and the Case of Vehicular Networks. Keynote speech at the International Conference on Web and Information Technologies, Sidi-Bel-Abbes, Algeria, April 2012.

Ouksel, A.,(2012) Keynote, Big Data: Challenges of Automated Information Factories and the Case of Vehicular Networks. Keynote speech at IEEE WETICE Conference, Toulouse, France, June 2012.

Pourabdollahi, Z., Javanmardi, M.* , Karimi, B., Mohammadian, A., & Kawamura, K. (2013) Choice of Mode and Shipment Size in Freight Transportation, Oral Presentation at the 92th annual meeting of the transportation research board. Washington D.C., January, 2013.

Stenneth, L., PhonePark: Street parking using mobile phones. Poster presented at the 12th IEEE Mobile Data Management (MDM). 2012

Stenneth, L. Detecting human activities from smartphones and maps. Poster presented at SIAM SDM 2012

Sturm, K.* , Pourabdollahi, Z., Mohammadian, A. & Kawamura, K., A Nationwide Establishment and Freight Survey: Descriptive and Non-Response Bias, Oral Presentation at the 92nd Annual Meeting of the Transportation Research Board (Washington, D.C.) January, 2013.

Szczurek, P.* , Xu, B.* , Wolfson, O., & Lin, J. (2012) A Platform for the Development and Evaluation of Passive Safety Applications, Oral Presentation at the 2012 IEEE Intelligent Vehicles Symposium (IV 2012), June 3-7, 2012, Alcalá de Henares, Spain

Thakuria, P., Tang, L., & Vassilakis, W. (2012) Assessment of temporal and spatial effects of bus arrival time information and implications for spatially targeted location-based services. Oral Presentation at the Transportation Research Board Annual Conference 2012, Jan 2012, Washington, DC, USA.

Thakuria, P., & Vassilakis, W. (2012) Perceived and functional independence in travel: assessing the role of neighborhood factors and community-based mobility services for persons with disabilities. Oral Presentation at the Transportation Research Board Annual Meeting , Jan 2012, Washington DC, USA.

Tilahun, N., Thakuria, P., & Mallon, Y. (2013) Factors Determining Transit Access by Car Owners: Implications for Intermodal Passenger Transportation Planning. Oral Presentation at the Transportation Research Board Annual Conference, 13-17 Jan 2013, Washington DC, USA.

Vallamsundar, S., & Lin, J. (2013) Sensitivity Test Analysis of MOVES and AERMOD models, Oral Presentation at the 2013 Transportation Research Board Annual Meeting, Washington D.C., January, 2013

Auld, J.* , Javanmardi, M.* & Mohammadian, A. (2012, January). Integration of activity scheduling and traffic assignment in the ADAPTS activity-based model. Presented at the 91th Annual Meeting of the Transportation Research Board, Washington, D.C.

Biagioni, J.* , Gerlich, T*., Merrifield, T. & Eriksson, J. (2011, November). EasyTracker: Automatic Transit Tracking, Mapping, and Arrival Time Prediction Using Smartphones. Paper presented at SenSys. ACM, 2011, Seattle, Washington.

Biagioni, J.* & Eriksson, J. (2012, January). Inferring road maps from GPS traces: Survey and Comparative Evaluation. Presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C.

Blei, A. M.*(2011, November). The Rational Locator Redux: Evidence from 40 U.S. Urban Areas. Paper presented at the American Collegiate Schools of Planning Annual Conference, Cincinnati, Ohio.

Blei, A. M.* & Angel, S. (2012, February). Trip distance, travel time and speed within and across U.S. metropolitan areas. Paper presented at the American Association of Geographers Annual Meeting, New York, NY.

Gerlich, T.* , Biagioni, J.* , Merrifield, T. & Eriksson, J. (2011, November). Demo: Tracking transit with easy tracker. Presented at SenSys. ACM, 2011, Seattle, Washington.

Karimi, B., Rashidi, T., Mohammadian, A., & Sturm, K.* (2012, January). A log-normal accelerated failure time (AFT) model for inter-shopping duration of maintenance shopping

activities of non-routine elderly shoppers. Paper presented at the 91st Annual Meeting of the Transportation Research Board, Washington, D.C.

Lin, J. (2011, June). Intelligent Transportation Systems: When is safety information relevant. Presented at the 12th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2011), Lucca, Italy.

Lin, J. (2011, June). Integration of MOVES and dynamic traffic assignment models for fine-grained transportation and air quality analyses. Presented at the IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS), Vienna, Austria.

Lin, J. (2011, August). An investigation in the feasibility of urban cooperative delivery strategies. Presented at the 2011 INFORMS Midwestern Conference, Analytics for Competitive Advantage, the Transportation Cluster, Ohio State University, Columbus, OH.

Lin, J. (2011, October). Urban freight consolidation and routing. Presented at the National Urban Freight Conference, Long Beach, CA.

Lin, J. (2011, November). Parking slot assignment games. Presented at the ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Chicago, IL.

Lin, J. (2011, November). A survey on trust management for intelligent transportation system. Presented at the 4th ACM SIGSPATIAL International Workshop on Computational Transportation Science, Chicago, IL.

Lin, J. (2011, November). The costs and benefits of urban cooperative delivery. Presented at INFORMS, Charlotte, NC.

Lin, J. (2012, January). Transportation conformity particulate matter hot-spot modeling Use of MOVES and AERMOD models. Presented at the 91st Transportation Research Board Annual Meeting, Washington, D.C.

Lin, J. (2012, January). A comparison between urban cooperative delivery and direct 6 delivery strategies. Presented at the 91st Transportation Research Board Annual Meeting, Washington, D.C.

Lin, J. (2012, May). Tour-based and supply chain modeling for freight. Presented at the Innovations in Travel Modeling 2012, Tampa, FL.

Mohammadian, A. & Rashidi, T. H. (2011, June). Household travel attributes transferability analysis: Application of hierarchical rule-based approach, using national household travel survey data for transportation decision making. Presented at a Workshop, Washington, D.C.

Mugler, E.* (2011, November). Electromyographic-speech decoding with electrocorticographic correlations: Toward utilization of phoneme production for brain-computer interface. Presented at the Society for Neuroscience Annual Meeting, Washington D.C.

Mugler, E.* (2012, April). Electromyographic-speech decoding with electrocorticographic correlations: Toward utilization of phoneme production for brain-computer interface. Presented at the Neuromechanics Symposium, Chicago, IL.

Pourabdollahi, Z. & Mohamadian, A., (2011, October). A conceptual framework for a behavioral freight transportation modeling system with logistics choices. Presented at the 4th METRANS National Urban Freight Conference, Long Beach, California.

Pourabdollahi, Z. & Mohamadian, A., (2011, August). An enhanced freight activity micro-simulation estimator (FAME) model using freight analysis framework (FAF3.0) dataset, Presented at The Mid-Continent Transportation Research Symposium, Ames, Iowa.

Pourabdollahi, Z. & Mohamadian, A. (2011, August). Behavioral freight transportation modeling system. Presented at the Mid-Continent Transportation Research Symposium, Ames, Iowa.

Sturm, K.* (2011, September). Comparative contact methods in freight establishment surveys. At the Mid-Continent Transportation Research Symposium , Ames, Iowa.

Wolfson, O., (2011, July). Silence of the labs: Why are we still commuting the way we did 40 years ago?. Presented at the French School on Ambient Intelligence in Lille.

Wolfson, O. (2011, November). Parking slot assignment games. Presented at 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Chicago, IL.

Wolfson, O. (2011, November). Transportation mode detection using mobile devices and GIS information. Presented at 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Chicago, IL.

Wolfson, O. (2011, November). Ranking of information in Intelligent Transportation Systems. Presented at Northwestern University, Transportation Center Seminar.

Wolfson, O. (2011, November). A survey on trust management for Intelligent Transportation Systems. Presented at the 4th International Workshop on Computational Transportation Science, Chicago, IL.

Wolfson, O. (2011, December). Silence of the labs: Why are we still commuting the way we did 40 years ago? Presented at University of Maryland Baltimore County, CS Distinguished Lecture.

Wolfson, O. (2012, January). How your Smartphone can use game-theory to valet-park your car. Presented at Technion, Israel Institute of technology, Computer Science Colloquium.

Auld, J. A.*, & Mohammadian, A. (2010, June). Disaggregate work location choice model for Chicago considering agglomeration and competition effects. Proceedings of Transport Chicago Conference, Chicago, IL.

Auld, J. A.*, Frignani, M. Z., Williams, C. A., & Mohammadian, A. (2010, June). Results of the UTRACS internet-based prompted recall GPS activity-travel survey for the Chicago Region. Proceedings of Transport Chicago Conference, Chicago, IL.

Biagioni, J. P.*, & Eriksson, J. (2010, September). UrbanExplorer - An automated activity discovery and planning assistant. MobiCom 2010, Chicago, IL.

Chen, Q., Adida, E., & Lin, J. (2010, December). An investigation in real-time bus holding policy. 5th HKSTS International Conference, Hong Kong.

Chiu, Y. C., Lin, J. & Vallamsundar, S., & Bai, S. (2011, May). Enhancing MOVES transportation and air quality analysis by integrating with simulation-based dynamic traffic assignment. 13th TRB Transportation Planning Applications Conference, Reno, NV.

Lin, J., Vallamsundar, S., Chiu, Y. C., & Bai, S. (2011, January). Integration of MOVES and dynamic traffic assignment models for fine-grained transportation and air quality analyses. MOVES-Transportation Modeling workshop at the 90th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Ouksel, A. (2010, June). Collaborative data management and data discovery: Applications challenges and opportunities. International Conference on Web and Information Technologies, Marrakech, Morocco.

Ruan, M., Lin, J., Linqvist, P., & Kawamura, K. (2010, June). National county-level commodity flow database. Transport Chicago 2010, Chicago, IL.

Ruan, M., Lin, J. & Kawamura, K. (2010, September). Modeling commercial vehicle daily tour chaining. TRB-SHRP2 Freight Modeling and Data Symposium, Washington D.C.

Ruan, M., Lin, J., & Kawamura, K. (2011, January). Modeling commercial vehicle daily tour chaining. 90th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Samimi, A., Mohammadian, A., & Kawamura, K. (2010, June). Online freight data collection effort in the United States. Proc. of NATMEC 2010, Improving Traffic Data Collection, Analysis, and Use, Transportation Research Board (TRB), Seattle, Washington.

Samimi, A., Mohammadian, A., & Kawamura, K. (2010, June). Freight microsimulation in the US. Proceedings of Transport Chicago Conference, Chicago, IL.

Szczurek, P.,* Xu, B.*, Wolfson, O., & Lin, J. (2010, July). Prioritizing travel time reports in peer-to-peer traffic dissemination. 7th IEEE, IET International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP) 2010, Newcastle, UK.

Szczurek, P.*, Xu, B.*, Wolfson, O., & Lin, J. (2010, September). Estimating relevance of information in a VANET environment. VANET'10 Workshop on Vehicular Inter-Networking, Chicago, IL.

Thakuriah, P., (2011, January). Analysis of cost-effectiveness of employment transportation services. 88th Transportation Research Board Annual Conference, Washington, D.C.

Thakuriah, P., & Tang, L. (2011, January). Will the psychological effects of real-time transit information systems lead to ridership gain? 88th Transportation Research Board Annual Conference, Washington, D.C.

Thakuriah, P., Soot, S., Cottrill, C.*, Tilahun, N., Blaise, E., & Vassilakis, W. (2011, January). Integrated and continuing transportation services for seniors: Case studies of new freedom program. 88th Transportation Research Board Annual Conference, Washington, D.C.

Thakuriah, P., & Cottrill, C.* (2011, January). Protecting locational privacy: Policy evaluation. 88th Transportation Research Board Annual Conference. Washington, D.C.

Thakuriah, P., & Tilahun, N. (2011, January). Incorporating weather information into real-time speed estimates: Comparison of alternative models. 88th Transportation Research Board Annual Conference, Washington, D.C.

Thakuriah, P., Tilahun, N., Soot, S., Vassilakis, W. (2010, October). Mobility for persons with disabilities: Examining the case of new freedom service users. ACSP Annual Conference, Minneapolis, MN.

Thakuriah, P., & Tilahun, N. (2010, November). Using real-time weather information in traveler information systems and location-based services. 18th International Conference on Advanced in GIS, ACM SIGSPATIAL GIS, San Jose, CA.

Vallamsundar, S., Lin, J., Chiu, Y. C., Bai, S., & Eisinger, D. (2010, November). Linking MOVES and dynamic traffic assignment model: Integration framework and methodology. First International Symposium on Advances in Transport Sustainability, Tempe, AZ.

Vallamsundar, S., & Lin, J. (2010, December). U.S. EPA emission models: MOVES vs MOBILE: A comparison of GHG and criteria pollutants. International Conference on Advances in Civil Engineering, Trivandrum, State of Kerala, India.

Vallamsundar, S., & Lin, J. (2011, January). MOVES versus MOBILE: A comparison of GHG and criteria pollutant emissions. 90th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Vallamsundar, S., & Lin, J. (2011, May). Transportation conformity particulate matter

hot-spot air quality modeling. Conference on Transportation Planning, Land Use and Air Quality, San Antonio, TX.

Xu, B.*, Wolfson, O., & Lin, J. (2010, November). Multimedia data in hybrid mobile P2P networks. 8th International Conference on Advances in Mobile Computing & Multimedia, Paris, France.

Auld, J.*, Rashidi, T. H., & Lin, J. (2009, July). Analysis of national county-level heavy-duty freight truck emissions. 2009 Transportation Land Use Planning and Air Quality Conference, Denver, CO.

Auld, J. A.* & Mohammadian, A. (2009, December). Activity planning processes in the ADAPTS activity-based modeling framework. 12th International Conference on Travel Behavior Research, IATBR, Jaipur, India.

Auld, J. A.*, Rashidi, T. H., Mohammadian, A. & Wies, K. (2010, January). Evaluating transportation impacts of forecast demographic scenarios using population synthesis and data transferability. 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

Auld, J. A.* & Mohammadian, A. (2010, May). Progress in the development of the ADAPTS dynamic activity-based microsimulation model. 3rd International Conference on Innovations in Travel Modeling (ITM) of the Transportation Research Board (TRB), Tempe, Arizona.

Ayala, D.*, Lin, J. & Wolfson, O. (2010, February). Communication reduction for floating car data based traffic information systems. Second International Conference on Advanced Geographic Information Systems, Applications, and Services, GEOProcessing 2010, St. Maarten, Netherlands Antilles.

Bisht, P., Sistla, A. P. & Venkatakrishnan, V. N. (2010, January). Automatically preparing safe SQL queries. Fourteenth International Conference on Financial Cryptography and Data Security '10, Tenerife, Canary Islands, Spain.

Booth, J.*, Di Eugenio, B., Cruz, I. & Wolfson, O. (2009). Query sentences as semantic (sub) networks. 3rd IEEE International Conference on Semantic Computing, Berkeley, CA.

Chadha, R., Sistla, A. P. & Viswanathan, M. (2009, September). Power of randomization in

automata on infinite strings, 20th International Conference on Concurrency Theory, Bologna, Italy.

Cottrill, C.* & Thakuriah, P. (2009, November). Privacy and gender: Reviewing womens attitudes towards privacy in the context of Intelligent Transportation Systems (ITS) and Location Based Services (LBS). Transportation Research Board Fourth International Conference on Womens Issues in Transportation.

Eduardo, D., Fang, F., Sistla, A. P., Yu, C. & Meng, W. (2009, August). Stop word and related problems in web interface integration. 35th International Conference on Very Large Database Systems, Lyon, France.

Gondi, K., Patel, Y. & Sistla, A. P. (2009). Monitoring the full range of omega-regular properties of stochast systems. 10th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI2009), Savannah, Georgia.

Kawamura, K. & Rashidi, L. H. (2009, June). Economic, environmental, and congestion impacts of trucking. Sixth International Conference on City Logistics, Puerto Vallarta, Mexico.

Kawamura, K. (2009, August). The use of economic policies to diminish auto use, and the relationship between autos, land use and travel behavior. Universidad Nacional de Colombia, Bogota.

Kawamura, K. (2009, October). Overview of freight research activities at UIC. Urban Transportation Center Seminar.

Kawamura, K. & Rashidi, L. (2009, October). Bad trucks and good trucks - Economic linkages and externalities of trucking activities. National Urban Freight Conference.

Kawamura, K. & Rashidi, L. (2009, October). Economic impact of in-house and for-hire trucking - Forward linkage analysis. Association of Collegiate Schools of Planning Annual Meeting.

Kawamura, K. (2009, November). Broad principles for urban freight planning UIC Supply Chain and Freight Transportation Symposium.

Lin, J. (2009, July). Investigation of bus dispatching strategies to improve headway regularity. 11th International Conference on Advanced Systems for Public Transport, Hong Kong.

Lu, Y. & Kawamura, K. (2010, January). Data mining approach to the work trip mode choice analysis in the Chicago area. 89th TRB Annual Meeting, Washington, D.C.

Lundquist, D.* & Ouksel, A. M. (2009). Distributed delay: Improving network throughput by reducing temporal saturation. IEEE NTMS, Cairo, Egypt.

Pu, W. & Lin, J. (2010, January). Estimation of urban street segment travel time using buses as real-time speed probes. 89th Transportation Research Board Annual Meeting, National

Research Council, Washington, D.C.

Rashidi, T. & Mohammadian, A. (2009, June). A dynamic hazard-based structural equations model of vehicle ownership with endogenous residential and job location changes incorporating group decision making. 4th International Transport Economics Conference, University of Minnesota.

Rashidi, T. H., Mohammadian, A. & Koppelman, F. (2009, December). An integrated model of housing, job, and vehicle ownership decisions: a simultaneous system of hazard-based equations with random and group decision-making effects. 12th International Conference on Travel Behavior Research, IATBR, Jaipur, India.

Rashidi, T., Mohammadian, A. & Koppelman, F. (2010, January). Modeling interdependencies between vehicle transaction, residential relocation, and job change. 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

Rashidi, T. & Mohammadian, A. (2010, January). Behavioral housing search choice set formation: Hazard-based screening model of property value and work distance. 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

Rashidi, T. & Mohammadian, A. (2010, January). Household travel attribute transferability analysis: Application of hierarchical rule-based approach. 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

Ruan, M. & Lin, J. (2009, June). A multilevel model for generating county-level freight data, presented Workshop on the Data and Tools for Understanding the Goods Movement-Air Quality Connection, Irvine, CA.

Ruan, M. & Lin, J. (2009, July). Freight emission modeling framework phase one: Generating county-level freight data using public sources. Transportation Land Use Planning and Air Quality Conference, Denver, CO.

Ruan, M., Lin, J. & Kawamura, K. (2009, October). Comparing the efficiency of commercial vehicle daily tours in Star and Loop trip chaining patterns in Texas urban areas. National Urban Freight Conference. Long Beach, CA.

Ruan, M., Lin, J. & Kawamura, K. (2010, January). Modeling urban commercial vehicle daily tour scheduling using the Texas commercial vehicle survey data. 89th Transportation Research Board Annual Meeting. National Research Council, Washington, D.C.

Ruan, M. & Lin, J. (2010, January). A synthesis framework for generating county level freight data using public sources for spatial autocorrelation analysis. 89th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). Freight movement modeling: Methodology and data needs, TRANSLOG 2009 (Transportation and Logistics) 1st Annual International Conference, McMaster University, Hamilton, ON, Canada.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). An online freight survey in the US. Transport Chicago Conference, Chicago, IL.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, June). A behavioral national freight model: Data and method. 4th International Transport Economics Conference, University of Minnesota.

Samimi, A., Mohammadian, A. & Kawamura, K. (2009, July). Behavioral freight movement modeling. 2009 IEEE International Conference on Service Operations, Logistics and Informatics, Chicago, IL.

Samimi, A., Mohammadian, A., & Kawamura, K. (2009, December). Behavioral freight modeling. Presented at Workshop W2: Behavioral Paradigms for Modeling Freight Travel Decision-Making. The 12th International Conference on Travel Behaviour Research. Jaipur, Rajasthan, India.

Samimi, A., Mohammadian, A. & Kawamura, K. (2010, January). Online freight shipment survey in the United States: Lessons learned and nonresponse bias analysis. 89th Annual Meeting of the Transportation Research Board, Washington, D.C.

Samimi, A., Mohammadian, A. & Kawamura, K. (2010, May). Progress in the development of the ADAPTS Dynamic activity-based microsimulation model. 3rd International Conference on Innovations in Travel Modeling (ITM) of the Transportation Research Board (TRB), Tempe, Arizona.

Scuturici, V-C., Suci, D-M., Vuillemot, R., Brunie, L. & Ouksel, A. M. (2010). Detecting anomalies in data streams using statecharts. Proceedings de Journees Francophones Extraction and Gestion des Connaissances, Hammamet, Tunisia.

Szczurek, P. M.*, Xu, B.*, Lin, J. & Wolfson, O. (2009, November). Machine learning approach to report prioritization with an application to travel time dissemination. 2nd International Workshop on Computational Transportation Science, Seattle, WA.

Thakuriah, P., Persky, J. & Soot, S. (2009, December). Dynamic microsimulation of transportation and labor markets. International Association of Travel Behavior Research, Jaipur, India.

Thakuriah, P., Tang, L. & Menchu, S. (2009, November). Young women's transportation and labor market experiences. Presentation made in the Transportation Research Board Fourth International Conference on Women's Issues in Transportation.

Thakuriah, P., Tang, L. & Menchu, S. (2010, January). Car-ownership among young adults: generational and period-specific perspectives. Annual Meetings of the Transportation Research Board.

Thakuriah, P., Cottrill, C.*, Thomas, N. & Vaughn, S.* (2010, January). Sketch planning methodology for determining interventions in bicycle and pedestrian crashes: An ecological approach. Annual Meetings of the Transportation Research Board.

Thakuriah, P. (2010, March). Humans, society & the economy in the CTS context. Dagstuhl Seminar 10121 on Computational Transportation Science, Dagstuhl, Germany.

Thiagarajan, A., Ravindranath, L., LaCurts, K., Madden, S., Balakrishnan, H., Toledo, S., Eriksson, J. VTrack: accurate, energy-aware road traffic delay estimation using mobile phones. SenSys 2009.

Williams, C.* (2010, March). Beyond mobility patterns. Dagstuhl Seminar 10121 on Computational Transportation Science, Dagstuhl, Germany.

Wolfson, O., Xu, B.* & Cho, H. (2009, November). Multimedia traffic information in vehicular networks. 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Seattle, WA, pp. 480-483.

Wolfson, O. (2010, March). Computational transportation science -- Issues and questions. Dagstuhl Seminar 10121 on Computational Transportation Science, Dagstuhl, Germany.

Wolfson, O. (2009, November). Panel on Computational Transportation Science Open Problems and Future Directions, the Second International Workshop on Computational Transportation Science, Seattle, WA.

Xu, B.*, Vafaei, F. & Wolfson, O. (2009). In-network query processing in mobile P2P databases. 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS), Seattle, WA, pp. 207-216.

Xu, B.* (2010 March). Mobile peer-to-peer databases and incentives for participation. Dagstuhl Seminar 10121 on Computational Transportation Science, Dagstuhl, Germany.

CTS-IGERT trainees are marked with an asterisk *

*Auld, J.A., A. Mohammadian and S.T. Doherty (2008). Modeling Activity Scheduling Conflict Resolution Strategies. In Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

*Auld, J.A., A. Mohammadian and M.J. Roorda (2009). ADAPTS: Agent-based Dynamic Activity Planning and Travel Scheduling Model - A Framework. Proceedings of the 88th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

*Auld, J.A., A. Mohammadian and M.J. Roorda (2009). Implementation of a Scheduling Conflict Resolution Model in an Activity Scheduling System. Proceedings of the 88th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C.

*Auld, J.A., A. Mohammadian and K. Wies (2008). Population Synthesis with Control Category Optimization. Proceedings of the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

*Auld, J.A., A. Mohammadian and S.T. Doherty (2008). Analysis of Activity Conflict Resolution Strategies. Proceedings of the 87th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C., January 13-17, 2008.

*Auld, J.A., A. Mohammadian and K. Wies (2008). Population Synthesis with Region-Level Control Variable Aggregation. Proceedings of the 87th Annual Meeting of the Transportation Research Board (DVD), Washington, D.C., January 13-17, 2008.

*Auld, J.A., C. Williams and A. Mohammadian (2008). Activity-Travel Surveying Using GPS Technology. Presentation to the New Technologies Subcommittee of the Travel Survey Methods Committee at the 87th Annual Meeting of the Transportation Research Board, Washington, D.C., January 13-17, 2008.

*Auld, J., Williams C., and Mohammadian A. (June 2008). Prompted Recall Travel Surveying with GPS, In Proceedings of Transport Chicago, Chicago, IL.

Aras H., Beckstein C., Buchegger S., Dittrich P., Hubauer T., Klan F., Knig-Ries B., Wolfson O. (2008). Uncertainty and Trust. Proc. of the Dagstuhl Invitational Seminar 08421: Uncertainty Management in Information Systems, Dagstuhl, Germany.

*Biagioni, J. P. *Szczurek P. M, Nelson P.C., and Mohammadian A. (January 2009).

Tour-Based Mode Choice Modeling: Using an Ensemble of Conditional and Unconditional Data Mining Classifiers, In Proceedings of the 88th Annual Meeting of the Transportation Research Board, (DVD), Washington, D.C.

*Booth J., Sistla P., Wolfson O., and Cruz I. (2009). A Data Model For Trip Planning in Multimodal Transportation Systems. 12th International Conference on Extending Database Technology, EDBT, Saint-Petersburg, Russia (pp. 994-1005), New York, New York: The Association for Computing Machinery, Inc.

Capizzi R., Longo A. and Venkatakrisnan V.N., Sistla A.P. (2008, December). Preventing Information Leaks Through Shadow executions. In the Annual Computer Security Applications Conference (ACSAC 2008). Anaheim, California.

Chadha R., Sistla A.P., Viswanathan M. (2008, June). On the Expressiveness and Complexity of Randomization in Finite State Monitors, IEEE Symposium on Logic in Computer Science (LICS'08). Pittsburgh, Pennsylvania.

Chadha, R., Sistla, A.P., Viswanathan M. (2009, to appear). On the Expressiveness and Complexity of Randomization in Finite State Monitors. To appear in the Journal of the Association for Computing Machinery.

Chen X., Schonfeld D., and Khokhar A., (2009). Localization and trajectory estimation of mobile object using minimum samples, IEEE Transactions on Vehicular Technology (TVT), accepted to appear, 2009.

*Cottrill, C. and P. Thakuriah (2008). GPS Use by Households: Early Indicators of Privacy Preferences. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

*Cottrill, C. and P. Thakuriah (2008). GPS Adoption by Households: Evidence from a Household Travel Survey. Published in the peer-reviewed proceedings of MobiQuitous 2008, First International Workshop on Computational Transportation Science IWCTS, held in conjunction with: The Fifth International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services. Dublin, Ireland.

*Cottrill, C. (2009). Overview of Approaches to Privacy Preservation in Intelligent Transportation Systems and Vehicle Infrastructure Integration Initiative. Proceedings of 88th Transportation Research Board Annual Conference. (Also forthcoming in the Transportation Research Record.) Washington, D.C.

Cruz, Isabel F., Gjomemo, Rigel, Lin, Benjamin and Orsini, Mirko. (2008). A Constraint and Attribute Based Security Framework for Dynamic Role Assignment in Collaborative Environments, 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom), (pp. 1-18). New York: Springer.

Cruz, Isabel F., Gjomemo R., Lin, B. and Orsini M. (2008). A Location Aware Role and Attribute Based Access Control System (Demo Paper), 16th ACM SIGSPATIAL International Symposium on Advances in Geographic Information Systems (ACM GIS) Irvine, California, (pp. 527-528). New York, New York: The Association for Computing Machinery, Inc.

Cruz, Isabel F, Gjomemo R., and Orsini M.(2008). A Secure Mediator for Integrating Multiple Level Access Control Policies. In the 12th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES), Session on XML Security, ed. E. Damiani, (pp. 354-362). Zagreb, Croatia. New York: Springer.

Eriksson, J., Balakrishnan, H. and Madden, S. (2008). Cabernet: A WiFi-Based Vehicular Content Delivery Network. In ACM/IEEE MobiCom 2008, {acceptance rate 11.7\%}. New York, New York: The Association for Computing Machinery, Inc.

Eriksson, J., Girod L., Hull B., Newton R., Madden S., and Balakrishnan H, (2008). The Pothole Patrol: Using a Mobile Sensor Network for Road Surface Monitoring. In ACM MobiSys 2008, {acceptance rate 17.8\%}. New York, New York: The Association for Computing Machinery, Inc.

Goce Trajcevski, Roberto Tamassia, Hui Ding, Peter Scheuermann, and Isabel F. Cruz. (2009). Continuous Probabilistic Nearest-Neighbor Queries for Uncertain Trajectories, 12th

International Conference on Extending Database Technology (EDBT), St. Petersburg, Russia, (pp. 874-885). New York, New York: The Association for Computing Machinery, Inc.

Goce Trajcevski, Ghica O, Scheuermann P., Tamassia R., and Cruz I. (2008). Alternating Multiple Tributaries+Deltas, 5th International Workshop on Data Management for Sensor Networks (DMSN), in conjunction with VLDB, (pp. 28-34). Auckland, New Zealand.

Gondi K, Patel Y., Sistla A.P. (2009). Monitoring the Full range of Omega-regular properties of Stochastic Systems. In the Proceedings of the 10th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI2009). Savannah, Georgia.

Haran, J., Mohammadian A., and Nelson P. (2008, July). Intelligent Traveler Assistant (ITA) Simulation Platform Design, First International Workshop on Computational Transportation Science, The 5th Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services, MOBIQUITOUS 2008, Trinity College Dublin, Ireland.

Ilarri S., Wolfson O., Mena E., Illarramendi A., Sistla P. (2009). A Query Processor for Prediction-Based Monitoring of Data Streams, 12th International Conference on Extending Database Technology. Saint-Petersburg, Russia.

Lu, Y.D., and Kawamura, K. (2008). Simulation and Investigation of the Path Dependency of Transportation Policy. In 4th Joint Congress of ACSP/AESOP. Chicago, Illinois.

Lu, Y.D., Kawamura K., and Zellner M. (2008). The Influence of Urban Forms on Work Travel Behavior: an Exploration Using Agent-Based Modeling. Transportation Research Record 2082, Transportation Research Board, (pp. 132 140). Washington, D.C.

Luo Y., Wolfson O., Xu B. (2008). Mobile Local Search via P2P Databases. Proc. Of Portable 2008: the 2nd IEEE International Interdisciplinary Intersociety Conference on Portable Information Devices (PIDs), (pp. 1-6). Garmisch-Partenkirchen, Germany.

*Lundquist, D., (September, 2008). The Hidden Problem of Uninformed Online Product Reviewers. In Semantic Web Architectures for Enterprises (SWAE), Torino, Italy.

Long, L., Lin J., Proussaloglou K. (2008). Investigating Contextual Variability in Mode Choice: Accounting for Residential Neighborhood Type. Transport Chicago 2008, Chicago, IL.

Long, L., Lin J., Pu W. (2009). Model-Based Synthesis of Household Travel Survey Data in Small- and Mid-Size Metropolitan Areas. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C.

Long, L., Lin J., Proussaloglou K. (2008). Investigating Contextual Variability in Mode Choice: Accounting for Residential Neighborhood Type. Transport Chicago 2008, Chicago, IL.

Long, L., Lin J., Proussaloglou K. (2009). Investigating Contextual Variability in Mode Choice Using Hierarchical Mixed Logit Model. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C..

Mohammadian, A., (2008, September). Travel Data Simulation Tool, In Proceedings. of the 11th National Conference on Transportation Planning for Small and Medium-Sized Communities, TRB, Portland, Oregon.

Ouksel, A. Bonifati, A, Chrysanthis P.K., Sattler K.U.) (2008).
<http://doi.acm.org/10.1145/1374780.13747811>. Distributed Databases and Peer-to-Peer Databases: Past and Present.,
<http://www.informatik.unitrier.de/%7Eley/db/journals/sigmod/sigmod37.html#BonifatiCOS08>
SIGMOD Record 37(1): 5-11.

Ouksel A., *Lundquist D. (2008). Dynamic Subscription Permission: Extending the Depth of Demand-Controlled Flooding, Proceedings of IEEE APSCC. Taiwan.

Ouksel A., Limam L., Benbernou S., Hacid M., Illarramendi A. (2008). Mapping Discovery in P2P databases: a query-based approach. In the Sixth International Workshop on Databases, Information Systems, and Peer-to-Peer Computing, Sixth International Workshops, DBISP2P 2008. Auckland, New Zealand.

Ouksel A., Elkhoury V. and Benani N. (2009). Distributed Key Management in Dynamic Outsourced Databases: a Trie-Based Approach. The First International Conference on Advances in Databases, Knowledge, and Data Applications, DBKDA 2009. Cancun, Mexico.

Pu, W., Lin, J. (2008). Toward the Use of AVL Buses as Probes for Regular Vehicle Traffic Conditions Estimation: A Literature Review, Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York, NY.

Pu, W., Lin J. (2008). Simulating Bus Probes in VISSIM. 2008 Midwestern District Institute of Transportation Engineers (ITE) Conference, Chicago, IL.

Pu, W., Lin J. (2008). Toward the Use of AVL Buses as Probes for Regular Vehicle Traffic Conditions Estimation: A Literature Review, Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York, NY.

Pu, W., Lin J. (2008). Urban Street Travel Time Prediction Using Real Time Bus Tracker Data. Transport Chicago 2008, Chicago, IL.

Pu, W., Lin J. (2009). Real-Time Estimation of Urban Street Travel Time Using Buses as Speed Sensors. The 88th Transportation Research Board Annual Meeting, National Research Council, Washington, D.C..

Rashidi, T., and A. Mohammadian (2008, October). Impact of Changing Demographics on Household- and Individual-Level Travel Attributes. In TRB's Conference on Impact of Changing Demographics on the Transportation System, Washington DC.

Rashidi, T. H., Mohammadian, A. (2009, January). Competing Hazard Model of Household Vehicle Transaction Behavior with Discrete Time Intervals and Unobserved Heterogeneity. In Proceedings of the 88th Annual Meeting of the Transportation Research Board, (DVD), Washington, D.C..

Rashidi, T. H., Mohammadian A., and Koppelman F. (March 30-April 1, 2009). A Dynamic Hazard-Based Structural Equations Model of Vehicle Ownership with Endogenous Residential and Job Location Changes Incorporating Group Decision Making, 1st International Choice Modeling Conference, Harrogate, UK.

Rashidi, T. H., Mohammadian A., and Zhang Y. (2009). Travel Behavior and the Effects of Household Demographics and Lifestyles. In Proceedings of the 88th Annual Meeting of The Transportation Research Board, (DVD), Washington, D.C.

Rodriguez, J., and K. Kawamura. (2008). FREQ Simulation and Ramp Meter HOV Bypass Optimization for the Northwest Study Area. Transport Chicago 2008. Illinois Institute of Technology. Chicago, Illinois.

Roosa, E. and Kawamura, K. (2008). Making Truck-Rail Intermodal Competitive. 4th Joint Congress of ACSP/AESOP. Chicago, Illinois.

Ruan, M., Lin J. (2008). An Investigation of Bus Headway Regularity and Service Performance in Chicago Bus Transit System. Transport Chicago 2008, Chicago, IL.

Ruan, M., Lin J. (2008). Generating County-level Freight Data Using Public Data Sources, the Mid-Continent Transportation Research Forum, Madison, Wisconsin.

Ruan, M., Lin J. (2008). An Investigation in Synthesis Methods of Generating High Geographic Resolution Freight Data, Proceedings of the 13th International Conference of the Hong Kong Society for Transportation Studies, Hong Kong.

Samimi, A., and A. Mohammadian, (2008, June). Sustainable Development: Examining the Impacts of Built-Environment and Transportation on Public Health, Proc. of Transport Chicago, Chicago, IL.

Subba, B. Di Eugenio, B. (2009, to appear June). An effective Discourse Parser that uses Rich Linguistic Information. NAACL-HLT 2009, the Conference of the North American Chapter of the Association for Computational Linguistics. Boulder, CO.

Thakuriah, P., *Cottrill, C. and Gustafson, T. (2008). A Networked Approach to Planning for Deployment of Intelligent Transportation Systems. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

Thakuriah, P. G. Yanos, J. Lin, P. Metaxatos, R. Sulo, W. Pu and L. Mbekeani (2008). Including Weather Effects in Real-Time Traffic Information Environment - Exploratory Analysis and Alternative Models. In Proceedings of Intelligent Transportation Systems World Congress. New York City, New York.

Thakuriah, P., Yanos G., Lin J. Metaxatos P., Sulo R., Pu W., Mbekeani L. (2008). Including Weather Effects in a Real-Time Traffic Information Environment-Comparison of Alternative Models. Proceedings of the 15th World Congress of Intelligent Transportation Systems, New York City, New York.

*Williams, C., A. Mohammadian, P. Nelson, and S. Doherty, (2008, July). Mining Sequential Association Rules For Traveler Context Prediction. In the First International Workshop on Computational Transportation Science at The 5th Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services, MOBIQUITOUS 2008, July 21, 2008 - Trinity College Dublin, Ireland.

*Williams, Chad A., Nelson Peter C. and Mohammadian, Albofazi (2009, July). Attribute Constrained Rules For Partially Labeled Sequence Completion. To appear in the Proceedings of the 9th Industrial Conference on Data Mining (ICDM'2009). Leipzig, Germany.

Wolfson O. (2009). MOBI-DIK: An Approach to Querying Data in a Mobile Ad Hoc Network. Proc. of the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Adhoc Networks. St. Louis, MO.

Zhang, Y., and Mohammadian A., (2008). Synthetic Household Travel Survey Data Simulation. In the Proceedings of the 3rd International Symposium on Transport Simulation, Gold Coast, Queensland, Australia.

Zhong T., Xu B., *Szcurek P., and Wolfson O. (2008). TRAFFICINFO: An Algorithm for VANET Dissemination of Real-time Traffic information. In the Proceedings of the 15th World Congress on Intelligent Transportation Systems. New York, NY.

Zhong T., Xu B., Wolfson O. (2008). Disseminating Real-Time Traffic Information in Vehicular Ad-Hoc Networks. Plenary presentation, Proc. of the IEEE Intelligent Vehicles Symposium, (pp. 1056-1061). Eindhoven, The Netherlands, (plenary presentation acceptance rate is 10%).

Zhu X., Xu B., Wolfson O. (2008). Spatial Queries in Disconnected Mobile Networks. Proc. of 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008 Irvine, CA), (pp. 337-346). New York, New York: The Association for Computing Machinery, Inc.

Auld, J. A.* and Mohammadian, A. (2007, June). A mode-choice model for Chicago CBD work trips: Applications to the Metra Rock-Island Express Line. Paper presented at the 2007 Transport Chicago Conference, Chicago, IL.

Auld, J. A.*, Lin, J., Kawamura, K., & Rashidi, T. H. (2007, June). Analysis of national county-level heavy-duty freight truck emissions. Paper presented at the 2007 Transport Chicago Conference, Chicago, IL.

Auld, J. A.*, Mohammadian, A. & Doherty, S. T. (2008, January). Analysis of activity conflict resolution strategies. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Auld, J. A.*, Mohammadian, A. & Wies, K. (2008, January). Population synthesis with region-level control variable aggregation. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Auld, J. A.*, Mohammadian, A., & Wies, K. (2008, May). Population synthesis with control category optimization. Paper to be presented at the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

Auld, J. A.*, Mohammadian, A., Nelson, P., & Doherty, S. T. (2008, May). Modeling activity scheduling conflict resolution strategies. Paper to be presented at the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

Auld, J. A.*, Williams, C.*, & Mohammadian, A. (2008, January). Activity-travel surveying using GPS technology. Presentation to the New Technologies Subcommittee of the Travel Survey Methods Committee at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Auld, J.*, Williams, C. A.*, & Mohammadian, A. (2008, January). Activity-travel surveying using GPS technology. Presentation at the New Technology Subcommittee Meeting at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Bapton, T. & Mohammadian, A. (2007, June). Calibration of advanced transportation management system. Paper presented at the 2007 Transport Chicago Conference, Chicago, IL.

Chakrabarti, S. & Mohammadian, A. (2007, June). Microsimulation-based evaluation of on-Ramp control algorithms using VISSIM. Paper presented at the 11th World Conference on Transport Research Society, Berkeley, CA.

Cottrill, C.* (2007, June). Evaluating Pedestrian Risk in Environmental Justice Areas. Presentation at the 2007 Transport Chicago Conference, Chicago, IL.

Cottrill, C.* (2007, October). A networked approach to planning for deployment of intelligent transportation systems. Presentation to the Association of Collegiate Schools of Planning Annual Conference, Milwaukee, WI.

Cottrill, C.* (2008, January). Evaluating pedestrian risk in environmental justice areas. Poster presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Lin, X., Musti, S. & Ouksel, A. (2007, October). A simulation system for ad hoc query-ready sensors. Paper presented at the Grace Hopper Celebration of Women in Computing 2007, Orlando, FL.

Ouksel, A. (2007, June). Serendipitous information dissemination and discovery in mobile ad-hoc networks: Market-based approach. Keynote presentation at the 7th International Conference on New Technologies of Distributed Systems, Morocco, Marrakesh.

Ouksel, A. (2007, June). Wireless sensor networks: Applications and research challenges. Keynote presentation at European Wireless 2007, Paris, France.

Ouksel, A. (2007, October). Ontologies: Créer de l'ordre à partir du chaos, état de l'art challenges. Keynote presentation at the Journées Francophones sur les Ontologies, Sousse, Tunisia.

Ouksel, A. (2008, February). Business intelligence: Essentials and economic challenges. Keynote presentation at the Conference Internationale sur les Systemes d'Information and Intelligence Economique (SIIE08), Hammamet, Tunisia.

Ouksel, A. (2008, February). What intelligence économique? Keynote presentation at the Colloque L'Entreprise et ses Enjeux à l'Ère du Numérique, Tunis, Tunisia.

Rashidi, T. H. & Mohammadian, A. (2007, June). Effectiveness of transit strategies targeting elderly people. Paper presented at the 2007 Transport Chicago Conference, Chicago, IL.

Rashidi, T.H., & Mohammadian, A. (2008, January). A. Effectiveness of transit strategies targeting elderly people. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Thakuriah, P. (2007, October). Decision problems in Intelligent Transportation Systems project selection, prioritization and sequencing. Paper presented at the Association of Collegiate Schools of Planning Annual Conference, Milwaukee, WI.

Thakuriah, P. (2007, October). Ridership effects of real-time transit traveler information systems. Paper presented at the Association of Collegiate Schools of Planning Annual Conference, Milwaukee, WI.

Thakuriah, P. (2007, October). Transportation and employment accessibility in a changing context of metropolitan decentralization: Case of New Delhi, India. Paper presented in Pre-Organized Session: Urban Work/Labor: The Politics and Ethics of the Changing Development Debate at the Association of Collegiate Schools of Planning Annual Conference, Milwaukee, WI.

Thakuriah, P. (2008, January). Analysis of transit quality of service and employment accessibility for the greater Chicago region. Paper presented in Annual Meeting of the Transportation Research Board, Washington, DC.

Thakuriah, P. (2008, January). Evaluating pedestrian risk in environmental justice areas. Paper presented at the Annual Meeting of the Transportation Research Board, Washington, DC.

Wolfson, O. (2007, September). Trends in computer science and technologies, Plenary presentation at the Workshop on Advanced Research in Geospatial Information Technologies for Transportation (GIS-T), Washington DC.

Wolfson, O. (2008, February). Information technology and intelligent transportation: A

marriage made in heaven. Keynote presentation at European Spatial Data Research and International Society for Photogrammetry and Remote Sensing Hannover Workshop on Geosensor Networks, Hannover Germany.

Yagi, S. & Mohammadian, A. (2007, June). An activity-based microsimulation model of travel demand in the Jakarta Metropolitan Area. Paper presented at the 11th World Conference on Transport Research Society, Berkeley, CA.

Yagi, S. & Mohammadian, A. (2007, June). Validation of an activity-based microsimulation model of travel demand. Paper presented at the 11th World Conference on Transport Research Society, Berkeley, CA.

Yagi, S., and Mohammadian, A. (2008, May). Analysis and Application of Intra-household Interaction Rules for an Activity-Based Microsimulation of Travel Demand. Paper to be presented at the 10th International Conference on Application of Advanced Technologies in Transportation, Athens, Greece.

Zargari, S., Araghi, M., & Mohammadian, A. (2008, January). A combined trip distribution and assignment model: Applications to mandatory trips. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Zhang, Y. & Mohammadian, A. (2007, June). Household travel data simulation. Paper presented at the 11th World Conference on Transport Research Society, Berkeley, CA.

Zhang, Y., & Mohammadian, A. (2008, January). Examining common distributional assumptions of travel characteristics for data simulation. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Zhang, Y., & Mohammadian, A. (2008, January). Microsimulation of household travel survey data. Paper presented at the 87th Annual Meeting of the Transportation Research Board, Washington, DC.

Outreach Activities

Title: Mobiquitous 2008 panel discussion featuring IGERT PI

Media Outlet/Organization: The Fifth Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and

Activity Date: 07/01/2008

Description: Panel on "The Future of Ubiquitous Computing" at Mobiquitous featuring IGERT PI Ouri Wolfson, Dublin, Ireland, July 2008.

Title: Co-PI Aris Ouksel delivers keynote speech

Media Outlet/Organization: IEEE WETICE Conference, Toulouse, France.

Activity Date: 06/25/2012

Description: Big Data: Challenges of Automated Information Factories and the case of vehicular networks

Title: College of Engineering feature announcement on trainee James Biagioni

Media Outlet/Organization: College of Engineering News

Activity Date: 11/08/2011

Description: The College of Engineering highlighted the best presentation award received by trainee James Biagioni at the prestigious SenSys Conference of 2011 held in Seattle

Title: CS PhD student, James Biagioni, receives Dean's Scholar Award for 2012-2013

Media Outlet/Organization: Departmental News-Computer Science, UIC

Activity Date: 04/24/2012

Description: A news item regarding trainee Biagioni appeared in the UIC Department of Computer Science News. James won the prestigious Dean's Scholar award in recognition of his scholarly achievements developing computational solutions to transportation problems

Title: CTS Fellow Bo Xu addresses Dagstuhl seminar

Media Outlet/Organization: Dagstuhl Seminar on Computational Transportation Science

Activity Date: 03/24/2010

Description: IGERT Fellow Bo Xu delivered a presentation entitled "Mobile Peer-to-Peer Databases and Incentives for Participation" at the Dagstuhl workshop held in Germany.

Title: CTS Fellow Chad Williams addresses Dagstuhl seminar

Media Outlet/Organization: Dagstuhl Seminar on Computational Transportation Science

Activity Date: 03/25/2010

Description: CTS Fellow Chad Williams delivered a presentation entitled "Beyond Mobility Patterns" at the Dagstuhl seminar Workshop on computational transportation science held in Germany.

Title: CTS project TransitGenie discussed in news article

Media Outlet/Organization: The TransitWire.com

Activity Date: 02/16/2010

Description: The Transit Wire, which provides information on state-of-the-art technologies in the public transportation industry, published an on-line article on the TransitGenie developed by UIC's J. Eriksson and Fellows Biagioni and Gerlich.

Title: CTS project TransitGenie highlighted in university news

Media Outlet/Organization: University of Illinois at Chicago, UIC News

Activity Date: 02/10/2010

Description: In the UIC News, an article by reporter Paul Francuch, explained how the TransitGenie, developed by Jakob Eriksson and Fellows James Biagioni and Tomas Gerlich, works and how to access it.

Title: CTS project, TransitGenie, highlighted in news blog

Media Outlet/Organization: RedEye

Activity Date: 01/31/2010

Description: A RedEye blog entitled "What's your favorite transit iPhone app? discussed the TransitGenie developed by Jakob Eriksson and Fellows James Biagiani & Tomas Gerlich.

www.chicagonow.com/blogs/redeye/2010/01/whats-your-favorite-transit-iphone-app.html

Title: CTS trainee, James Biagioni, presented a poster/demo for GIS Day, Notre Dame University

Media Outlet/Organization: Notre Dame University

Activity Date: 11/17/2010

Description: Poster/Demonstration: Biagioni, J. P., T. Merrifield, and J. Eriksson, UrbanExplorer - An Automated Activity Discovery and Planning Assistant was presented at GIS Day 2010 at University of Notre Dame, Notre Dame, IN.

Title: CTS trainee, Joel Booth, Guest Lecturer

Media Outlet/Organization: University of Illinois at Chicago

Activity Date: 04/07/2011

Description: Joel Booth was a guest lecturer in an undergraduate course, Natural Language Processing, offered by the Computer Science Department, UIC.

Title: CTS Transit Genie discussed in university newspaper

Media Outlet/Organization: University of Illinois at Chicago, Chicago Flame

Activity Date: 02/15/2010

Description: UIC Chicago Flame reporter Lucia Gonzalez' article entitled "Catching a bus? There's an APP for that" discussed the TransitGenie developed by Dr. Jakob Eriksson and Fellows Biagioni and Gerlich. The app can be downloaded to an iPhone.

Title: Daniel Ayala presenting in IGERT annual PI meeting

Media Outlet/Organization: IGERT Annual PI meeting

Activity Date: 06/01/2012

Description: Daniel Ayals presented a poster in the IGERT annual PI meeting in Washington DC. The poster gave an overview of our CTS program and of the Intelligent Traveler Assistant (ITA) application.

Title: Dr. Abolfazl Mohammadian invited speaker at webinar

Media Outlet/Organization: Federal Highways Administration (FHWA)

Activity Date: 01/25/2010

Description: Dr. Abolfazl Mohammadian was invited to participate in a webinar as part of the Travel Model Improvement Program. He delivered an address entitled "Transferability of travel survey data: A household travel data simulation tool".

Title: Dr. Abolfazl Mohammadian invited speaker in workshop in Australia

Media Outlet/Organization: Monash University

Activity Date: 01/29/2010

Description: Dr Abolfazl Mohammadian participated in a workshop offered by Monash University of Melbourne, Australia. As part of this workshop he delivered 2 addresses - Emerging Methods in Urban Transportation and Introduction to Urban Transportation Planning.

Title: Dr. Abolfazl Mohammadian invited speaker in workshop in Bogota

Media Outlet/Organization: Universidad Nacional de Colombia

Activity Date: 08/14/2009

Description: Abolfazl Mohammadian was invited to participate in a workshop at the Universidad Nacional de Colombia in Bogota. He presented a seminar entitled "Recent innovations in urban transportation modeling: New methodologies and international experience".

Title: Dr. Abolfazl Mohammadian receives UIC teaching award

Media Outlet/Organization: University of Illinois at Chicago

Activity Date: 06/09/2009

Description: Abolfazl Mohammadian received the Harold Simon Teaching Award from the College of Engineering, UIC, for his dedication, distinguished service and teaching excellence.

Title: Dr. Abolfazl Mohammadian recognized by UIC for teaching excellence

Media Outlet/Organization: University of Illinois at Chicago

Activity Date: 11/15/2009

Description: Abolfazl Mohammadian was awarded the UIC Teaching Recognition Program award for 2009. This is a faculty administered program to recognize outstanding instructional performance.

Title: Dr. Aris Ouksel addresses the Algerian Ministry of Defense

Media Outlet/Organization: Algerian Ministry of Defense

Activity Date: 11/03/2009

Description: Aris Ouksel presented a talk entitled "Cyberinfrastructure and Cybersecurity: Issues, Challenges, and Strategies" at the Ministry of Defense, Algeria, November 3, 2009.

Title: Dr. Aris Ouksel is invited as keynote speaker

Media Outlet/Organization: International Conference on Web and Information Technologies

Activity Date: 06/16/2010

Description: Aris Ouksel gave the keynote address for the International Conference on Web & Information Technologies in Marrakech, Morocco. His talk was entitled "Collaborative Data Management and Data Discovery: Applications Challenges and Opportunities".

Title: Dr. Aris Ouksel is invited keynote speaker Workshop on Multimedia Distributed Systems

Media Outlet/Organization: 2nd International Workshop on Multimedia Distributed Systems

Activity Date: 12/07/2009

Description: Dr. Aris Ouksel presented the keynote address at the 2nd International Workshop on Multimedia Distributed Systems held in Passau, Germany, entitled Automated Information Factories: The 21st Information Industrial Revolution.

Title: Dr. Aris Ouksel is invited keynote speaker Workshop on Multimedia Distributed Systems

Media Outlet/Organization: 5th International Conference on Signal Image Technology and Internet-Based Systems

Activity Date: 11/29/2009

Description: Dr. Aris Ouksel was the invited keynote speaker for the 5th International Conference on Signal Image Technology and Internet-Based Systems, Nov. 29-Dec 4, 2009, Marrakech Morocco.

Title: Dr. Aris Ouksel speaks in Lyon, France

Media Outlet/Organization: Institut des Sciences Appliquees

Activity Date: 06/10/2009

Description: Aris Ouksel was invited to speak to the Institut des Sciences Appliquees, in Lyon, FRANCE, on June 10, 2009. The title of his address was Ontologies: State of the Art and Research Challenges and Applications.

Title: Dr. Jakob Eriksson interviewed by CTA Connections

Media Outlet/Organization: CTA Connections

Activity Date: 06/22/2010

Description: Dr. Jakob Eriksson was in a video interview for the CTA Connections, which promotes existing bus and rail initiatives. Dr. Eriksson explained the TransitGenie app which is available on the Chicago CTA web site: www.transitchicago.com/apps/#itouch

Title: Dr. Jakob Eriksson interviewed

Media Outlet/Organization: ABC7

Activity Date: 01/10/2012

Description: Dr. Jakob Eriksson was interviewed as part of a report on snow plow tracking.

Title: Dr. Jane Lin, invited speaker for FHWA

Media Outlet/Organization: Federal Highway Administration

Activity Date: 05/26/2012

Description: Dr. Jane Lin, Civil and Materials Engineering, gave an invited talk, entitled "MOVES modeling", at the MOVES(MOTOR Vehicle Emissions Simulator) Model User Group for Project Sponsors Web Conference. This web conference was sponsored by FHWA.

Title: Dr. Ouri Wolfson a panelist at ICDE '14

Media Outlet/Organization: Conference

Activity Date: 04/04/2014

Description: Panelist on "Automated Mobility: How environment awareness technologies will ?drive? intelligent transportation of the future", 30th International Conference on Data Engineering

Title: Dr. Ouri Wolfson a panelist at SIGKDD UrbComp

Media Outlet/Organization: Conference

Activity Date: 08/24/2013

Description: Panelist on "The Future of Urban Computing" at The 2nd ACM SIGKDD International Workshop on Urban Computing (UrbComp 2013)

Title: Dr. Ouri Wolfson addresses Dagstuhl seminar

Media Outlet/Organization: Dagstuhl Seminar on Computational Transportation Science

Activity Date: 03/23/2010

Description: Dr. Ouri Wolfson delivered a presentation entitled "Computational Transportation Science - Issues and Questions" at the Dagstuhl Seminar held in Wadern, Germany.

Title: Dr. Ouri Wolfson an invited speaker at SIGKDD UrbComp 2014

Media Outlet/Organization: Conference

Activity Date: 08/24/2014

Description: Invited speaker on "The Future of Urban Computing" at The 3rd ACM SIGKDD International Workshop on Urban Computing (UrbComp 2014)

Title: Dr. Ouri Wolfson chairs 2nd IWCTS Workshop

Media Outlet/Organization: Second International Workshop on Computational Transportation Science

Activity Date: 11/03/2009

Description: Dr. Ouri Wolfson was the Steering Committee Chairman, Second International Workshop on Computational Transportation Science, Seattle, WA.

Title: Dr. Ouri Wolfson delivers Lecture at retirement party

Media Outlet/Organization: Columbia University

Activity Date: 12/09/2011

Description: Wolfson talked about Intelligent Transportation at Columbia University's retirement party for Prof. Yechiam Yemini.

Title: Dr. Ouri Wolfson invited speaker at ICST Conference

Media Outlet/Organization: ICST Conference on Mobile Wireless Middleware, Operating Systems, and Applications

Activity Date: 07/01/2010

Description: Dr. Ouri Wolfson addressed the Third International ICST Conference on Mobile Wireless Middleware, Operating Systems and Applications in Chicago IL. His presentation was entitled "Computing challenges in intelligent transportation systems".

Title: Dr. Ouri Wolfson is invited Distinguished Lecturer at Iowa State University
Media Outlet/Organization: Iowa State University Distinguished Lecture Series
Activity Date: 11/18/2010

Description: Dr. Ouri Wolfson presented a seminar entitled Silence of the Labs: Why Are We Still Commuting the Way We Did 40 Years Ago? as part of the Distinguished Lecture colloquium at Iowa State University.

Title: Dr. Ouri Wolfson is invited speaker, University of California-Berkeley
Media Outlet/Organization: University of California-Berkley, Civil and Environmental Engineering Department

Activity Date: 11/01/2010

Description: Dr. Ouri Wolfson delivered an address entitled "The IGERT PhD program in Computational Transportation Science" as part of the seminar series hosted by the Civil Engineering Department at the University of California-Berkeley.

Title: Dr. Ouri Wolfson is invited workshop speaker

Media Outlet/Organization: 2nd Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless

Activity Date: 05/20/2010

Description: Dr. Ouri Wolfson is an invited speaker at the 2nd Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Adhoc Networks to be held in Kansas City, May 20, 2010.

Title: Dr. Ouri Wolfson is named University Scholar

Media Outlet/Organization: University of Illinois at Chicago, UIC News

Activity Date: 09/30/2009

Description: Dr. Ouri Wolfson was named one of seven University Scholars for 2009. The award recognizes faculty members for superior research and teaching, as well as recognizing faculty with great promise for future achievements.

Title: Dr. Ouri Wolfson is panelist in 2nd IWCTS workshop

Media Outlet/Organization: Second International Workshop on Computational Transportation Science

Activity Date: 11/03/2009

Description: Dr. Ouri Wolfson spoke in the panel on Computational Transportation Science Open Problems and Future Directions at the Second International Workshop on Computational Transportation Science, Seattle, WA.

Title: Dr. Ouri Wolfson named AAAS Fellow

Media Outlet/Organization: AAAS New and Notes

Activity Date: 12/18/2009

Description: Ouri Wolfson was named an AAAS Fellow for his trailblazing work on moving object databases and for fundamental contributions to distributed and mobile systems. Dr. Wolfson received his award at the annual meeting in San Diego in Feb., 2010.

Title: Dr. Ouri Wolfson on program committee

Media Outlet/Organization: Temporal Representation and Reasoning Conference

Activity Date: 07/23/2009

Description: Dr. Ouri Wolfson served on the program committee of TIME'09 Temporal Representation and Reasoning conference held in Brixen-Bressanone, Italy.

Title: Dr. Ouri Wolfson organizes Dagstuhl Seminar Workshop

Media Outlet/Organization: Dagstuhl Seminar 10121 on Computational Transportation Science

Activity Date: 03/23/2010

Description: Dr. Ouri Wolfson is the workshop organizer of Dagstuhl Seminar 10121 on Computational Transportation Science held in Germany.

Title: Dr. Ouri Wolfson serves as General Chair ACM GIS conference

Media Outlet/Organization: 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS)

Activity Date: 11/04/2009

Description: Dr. Ouri Wolfson served as the General Chair, 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS) held in Seattle, WA.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board

Media Outlet/Organization: Advances in Vehicular Ad-Hoc Networks; Developments and Challenges

Activity Date: 06/01/2009

Description: Dr. Ouri Wolfson served as an editorial advisory board member, Advances in Vehicular Ad-Hoc Networks; Developments and Challenges, M.K. Watfa (ed.), IGI Global Publishing.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board

Media Outlet/Organization: Vague Spatial and Spatiotemporal Data Handling: Improving GIS & Object Databases

Activity Date: 03/01/2010

Description: Dr. Ouri Wolfson serves as an editorial advisory board member, Vague Spatial and Spatiotemporal Data Handling: Improving GIS & Object Databases, M. Schneider (ed). IGI Global Publishing, Mar. 2010.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board

Media Outlet/Organization: ACM/URSI/Baltzer Wireless Networks Journal

Activity Date: 06/01/2009

Description: Dr. Ouri Wolfson serves as a member of the editorial board, ACM/URSI/Baltzer Wireless Networks Journal, Jan. 1997-Present.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board
Media Outlet/Organization: IEEE Transactions on Mobile Computing
Activity Date: 06/01/2009
Description: Dr. Ouri Wolfson serves as a member of the editorial board, IEEE Transactions on Mobile Computing, Jan. 2007 - Present.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board
Media Outlet/Organization: Journal of Spatial Information Science
Activity Date: 07/01/2009
Description: Dr. Ouri Wolfson serves as a member of the editorial board, Journal of Spatial Information Science, www.josis.org, July, 2009 - Present.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board
Media Outlet/Organization: J. Ross Publishing Transportation Letters: The Int'l Journal of Transportation Research
Activity Date: 06/01/2009
Description: Dr. Ouri Wolfson serves as a member of the editorial board, J. Ross Publishing Transportation Letters: The International Journal of Transportation Research, Dece 2008 - Present.

Title: Dr. Ouri Wolfson serves on Editorial Advisory Board
Media Outlet/Organization: International Journal of Next-Generation Computing (IJNGC)
Activity Date: 06/01/2009
Description: Dr. Ouri Wolfson serves on the editorial board of International Journal of Next-Generation Computing (IJNGC).

Title: Dr. Ouri Wolfson serves on program committee
Media Outlet/Organization: The Second IEEE International Workshop on Vehicular Networking
Activity Date: 12/07/2009
Description: Dr. Ouri Wolfson served on the program committee of VON'09 The Second IEEE International Workshop on Vehicular Networking held in Biopolis, Singapore.

Title: Dr. Ouri Wolfson serves on program committee
Media Outlet/Organization: IEEE Consumer Communications and Networking Conference
Activity Date: 01/09/2010
Description: Dr. Ouri Wolfson served on the program committee of CCNC'10 IEEE Consumer Communications and Networking Conference, Las Vegas, Nevada.

Title: Dr. Ouri Wolfson serves on program committee
Media Outlet/Organization: The 2nd International Conference on Resource Intensive Applications and Services
Activity Date: 03/03/2010
Description: Dr. Ouri Wolfson served on the program committee of INTENSIVE'10, The

2nd International Conference on Resource Intensive Applications and Services, Cancun, Mexico.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 11th International Conference on Mobile Data Management

Activity Date: 05/23/2010

Description: Dr. Ouri Wolfson served on the program committee of MDM'10, The 11th International Conference on Mobile Data Management, Kansas City, KS.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 26th International Conference on Data Engineering

Activity Date: 03/01/2010

Description: Dr. Ouri Wolfson served on the program committee of ICDE'10, The 26th International Conference on Data Engineering held in Long Beach, CA.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 3rd IEEE International Workshop on Sensor Network Technologies for Information Explosion Era

Activity Date: 05/23/2010

Description: Dr. Ouri Wolfson served on the program committee of SENTIE'10, The 3rd IEEE International Workshop on Sensor Network Technologies for Information Explosion Era which will be held in Kansas City, KS, USA, May, 2010.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 11th International Symposium on Spatial and Temporal Databases

Activity Date: 07/08/2009

Description: Dr. Ouri Wolfson served on the program committee of SSTD'09, The 11th International Symposium on Spatial and Temporal Databases held in Aalborg, Denmark.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The International Conference on Wireless Information Networks and Systems

Activity Date: 07/26/2009

Description: Dr. Ouri Wolfson served on program committee of WINSYS'09, The International Conference on Wireless Information Networks and Systems held in Milan, Italy.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The Fifth International Conference on Wireless and Mobile Communications

Activity Date: 08/23/2009

Description: Dr. Ouri Wolfson served on the program committee of ICWMC'09, The Fifth International Conference on Wireless and Mobile Communications which was held in Cannes, France.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 24th International Symposium on Computer and Information Sciences

Activity Date: 09/14/2009

Description: Dr. Ouri Wolfson served on the program committee of ICSIS'09, The 24th International Symposium on Computer and Information Sciences held in Northern Cyprus, Turkey.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The First International Conference on Advances in P2P Systems

Activity Date: 10/11/2009

Description: Dr. Ouri Wolfson served on the program committee of AP2PS'09, The First International Conference on Advances in P2P Systems held in Sliema, Malta.

Title: Dr. Ouri Wolfson serves on program committee

Media Outlet/Organization: The 9th International Symposium on Web & Wireless Geographical Information Systems

Activity Date: 12/07/2009

Description: Dr. Ouri Wolfson served on the program committee of W2GIS'09, The 9th International Symposium on Web & Wireless Geographical Information Systems held in Maynooth, Ireland.

Title: Dr. Ouri Wolfson serves on program committee 1st International Conf. on Advances in P2P Systems

Media Outlet/Organization: IADIS (International Association for Development of the Information Society) International Conference

Activity Date: 11/20/2009

Description: Dr. Ouri Wolfson served on the program committee of IADIS (International Association for Development of the Information Society) International Conference on Applied Computing held in Rome, Italy.

Title: Dr. Ouri Wolfson serves on review panel

Media Outlet/Organization: Lawrence Berkeley National Laboratory

Activity Date: 08/15/2009

Description: Dr. Ouri Wolfson was a review panelist for Computing Sciences at Lawrence Berkeley National Lab, a multidisciplinary national laboratory located in Berkeley, California.

Title: Dr. Ouri Wolfson speaks at Technion in Israel

Media Outlet/Organization: Technion, Israel Institute of technology

Activity Date: 01/31/2012

Description: "How Your Smartphone Can Use Game-Theory to Valet-park Your Car"

Title: Dr. Ouri Wolfson speaks at the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science

Media Outlet/Organization: Conference

Activity Date: 11/04/2014

Description: Dr. Ouri Wolfson gave the keynote speech at the 7th ACM SIGSPATIAL International Workshop on Computational Transportation Science, titled "The Opportunities and Challenges in Temporary Geospatial Information"

Title: Dr. Ouri Wolfson speaks at the first ACM SIGSPATIAL 2014 PhD Symposium

Media Outlet/Organization: Conference

Activity Date: 11/04/2014

Description: Dr. Ouri Wolfson gave the keynote speech at the first ACM SIGSPATIAL 2014 PhD Symposium, with title "What to Research in Spatial Information and How to Do So"

Title: Dr. Ouri Wolfson speaks at TIME Symposium

Media Outlet/Organization: TIME

Activity Date: 09/27/2013

Description: Dr. Ouri Wolfson was an invited speaker at the 20th International Symposium on Temporal Representation and Reasoning. He presented his work on, "Spatio-temporal Competition for Transportation Resources"

Title: Dr. P. Thakuriah is invited speaker at the Institute of Urban Transportation

Media Outlet/Organization: Ministry of Urban Development, Government of India

Activity Date: 12/07/2009

Description: P. Vonu Thakuriah was invited by the Ministry of Urban Transportation, Government of India, New Delhi to address the Institute of Urban Transportation on collaborative and intelligent transportation systems for urban transport.

Title: Dr. P. Thakuriah participates on panel

Media Outlet/Organization: UIC Supply Chain and Freight Transportation Symposium

Activity Date: 11/17/2009

Description: P. Vonu Thakuriah participated in the Panel on U.S. Federal Reauthorization on Surface Transportation that was hosted at UIC as part of the Supply Chain and Freight Transportation Symposium.

Title: Dr. P. Thakuriah speaks at Dagstuhl seminar

Media Outlet/Organization: Dagstuhl Seminar on Computational Transportation Science

Activity Date: 03/26/2010

Description: Dr. P. Thakuriah delivered a presentation titled "Humans, Society & the Economy in the CTS Context" at the Dagstuhl seminar on computation transportation sciences held in Germany.

Title: Dr. P. Thakuriah speaks to US House of Representatives

Media Outlet/Organization: U.S. House of Representatives, Transportation and Infrastructure Committee

Activity Date: 03/05/2010

Description: P. Thakuriah presented Intelligent Transportation Systems Research to the US House of Representatives, Transportation and Infrastructure Committee, chaired by J. Oberstar & at D. Lipinski's Panel on Technology and Innovation in the Chicagoland Area.

Title: Emily Mugler presenting in Society for Neuroscience Annual Meeting

Media Outlet/Organization: Neuroscience Annual Meeting

Activity Date: 10/13/2012

Description: Emily Mugler delivered a poster presentation in Society for Neuroscience 2012 Annual Meeting.

Title: Faculty Jane Lin as a Panelist

Media Outlet/Organization: "NSF Sciences Behind Sustainability Quantification for Building & Infrastructure Design, Engineerin

Activity Date: 11/07/2012

Description: Incorporating Geographic/Spatial Sustainable Measurements in Transportation Planning and Operations

Title: Faculty Jane Lin presents at Hong Kong Society for Transportation Studies

Media Outlet/Organization: Hong Kong Society for Transportation Studies jointly organized with Department of Civil and Environm

Activity Date: 10/20/2012

Description: Economic and Environmental Analyses of Urban Delivery Consolidation Strategies

Title: Faculty Jane Lin presents at joint research meeting

Media Outlet/Organization: Joint research meeting by US Environmental Protection Agency, Cornell University, University of Illi

Activity Date: 12/16/2012

Description: Sensitivity Tests of MOVES and AERMOD models for PM2.5 Hotspot Analysis

Title: Faculty Jane Lin presents at Ministry of Transport, Beijing, China

Media Outlet/Organization: Transport Planning and Research Institute, Ministry of Transport, Beijing, China,

Activity Date: 12/14/2012

Description: Integrated Framework for Fine-Grained Transportation and Air Quality Analyses

Title: Faculty Jane Lin presents at Tsinghua University
Media Outlet/Organization: Department of Environmental Science and Engineering, Tsinghua University, Beijing, China
Activity Date: 12/03/2012
Description: Integrated Framework for Fine-Grained Transportation and Air Quality Analyses

Title: Faculty Jane Lin visits Dalian University of Science and Technology, China
Media Outlet/Organization: Dalian University of Science and Technology, Dalian, China
Activity Date: 11/19/2012
Description: Integrated Framework for Fine-Grained Transportation and Air Quality Analyses. Modeling Land Use, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service Economic and Environmental Analyses of Urban Delivery Consolidation Strategies

Title: Faculty Jane Lin visits Harbin Institute of Technology
Media Outlet/Organization: Department of Civil Engineering, Harbin Institute of Technology, Harbin, China
Activity Date: 12/06/2012
Description: Integrated Framework for Environmentally Sustainable Transportation Policy Analyses Bus Probe Based Urban Travel Time Prediction Modeling Land Use, Bus Ridership and Air Quality: A Case Study of Chicago Bus Service Mobile Source Emissions

Title: Faculty Jane Lin visits China Research Academy of Environmental Science
Media Outlet/Organization: China Research Academy of Environmental Science (CRAES), Beijing, China
Activity Date: 12/03/2012
Description: Integrated Framework for Environmentally Sustainable Transportation Policy Analyses Sensitivity Tests of MOVES and AERMOD models for PM2.5 Hotspot Analysis

Title: Faculty member Dr. Kazuya Kawamura presents at Miller Citizens Corporation
Media Outlet/Organization: Miller Citizens Corporation
Activity Date: 11/15/2014
Description: Faculty member Dr. Kazuya Kawamura presented at Miller Citizens Corporation, titled "Regenerating Miller Beach". The presentation was at Gardner Center in Gary, IN.

Title: Faculty member Dr. Robert Sloan authors an article on Crain's Chicago Business
Media Outlet/Organization: Crain's Chicago Business
Activity Date: 10/21/2014
Description: IGERT faculty member Dr. Robert Sloan authored an article titled "Why those corporate data breaches are happening" on Crain's Chicago Business. This article is a discussion regarding to recent data breaches from big retailers such as Target.

Title: Faculty member Dr. Robert Sloan gives keynote speech

Media Outlet/Organization: UIC

Activity Date: 04/17/2015

Description: Faculty member Dr. Robert Sloan was the keynote speaker of the following event: Re-Writing Science: Communicating Science in the 21st Century?, Conference at UIC Friday April 17, 2015, on Big Data and Privacy.

Title: Freight Congestion in the Chicago Metropolitan Area testimony by IGERT CO-PI

Media Outlet/Organization: U.S. House of Representatives Committee on Transportation and Infrastructure

Activity Date: 06/17/2008

Description: Thakuriah, P. Testimony to U.S. House of Representatives Committee on Transportation and Infrastructure (Congressmen James Oberstar and Daniel Lipinski.).

Title: IGERT Poster Competition

Media Outlet/Organization: IGERT web site

Activity Date: 06/24/2013

Description: Trainee Roland Varriale presented his research, "VTIS: A Volunteered Transportation Information System" as part of the IGERT's annual poster and video competition

Title: Industry-University R&D Collaboration on Intelligent Transportation Systems organized and led by IGERT Co-PI.

Media Outlet/Organization: ITS World Congress Special Session, New York, NY.

Activity Date: 11/18/2008

Description: Panel of faculty and researchers from USA, Australia and Europe led and organized by IGERT Co-PI, P. Thakuriah. Panel consisted of Alex Skarbadonis, UC-Berkeley, Fritz Busch, TUM and Glenn Geers, NICTA and UNSW, Australia.

Title: Intelligent Traveler Assistant (developed by IGERT project) in media

Media Outlet/Organization: Chicago Magazine

Activity Date: 08/29/2008

Description: The ITA is featured in the Chicago magazine article "Gridlock Jocks", based on interview with IGERT co-PI prof. Peter Nelson.

Title: Kazuya Kawamura invited to TRB event

Media Outlet/Organization: Transportation Research Board

Activity Date: 05/30/2014

Description: Participated in the City Logistics Research: A Trans-Atlantic Perspective, sponsored by TRB at the National Academy of Science. Kazuya Kawamura was one of 25 researchers and practitioners invited to represent the US in this joint EU-US event.

Title: Kouros Mohammadian is invited to present at Center of Research Excellence in Hajj and Omrah

Media Outlet/Organization: Center of Research Excellence in Hajj and Omrah in Saudi Arabia

Activity Date: 11/18/2010

Description: Kouros Mohammadian was the invited speaker at the Center of Research Excellence in Hajj and Omrah (Hajj Core), Umm Al-Qura University, Makkah, Saudi Arabia. He presented a seminar entitled "UIC's Recent Work on Urban Travel Forecasting".

Title: Kouros Mohammadian is invited to speak at the Northwestern University Transportation Center

Media Outlet/Organization: Northwestern University Transportation Center

Activity Date: 02/16/2011

Description: Kouros Mohammadian was the invited speaker for the Northwestern University Transportation Center. He presented a talk entitled "Advances in Transportation Planning".

Title: Kouros Mohammadian is invited to speak at the Southern California Association of Governments

Media Outlet/Organization: Southern California Association of Governments

Activity Date: 03/18/2011

Description: Dr. Kouros Mohammadian was the invited speaker of the Southern California Association of Governments (SCAG), March 18, 2011. He presented a talk entitled "UIC's Integrated Transportation and Land-Use Modeling System".

Title: Kouros Mohammadian leads workshop in Australia

Media Outlet/Organization: Monash University

Activity Date: 03/22/2011

Description: Kouros Mohammadian travelled to Melbourne Australia to present "Recent Advances in Freight Modeling" for the Fundamental and Advanced Topics in Transportation Modeling Workshop, at Monash University.

Title: Ouri Wolfson interviewed by WGN News

Media Outlet/Organization: WGN News, Chicago

Activity Date: 12/14/2007

Description: IGERT PI Ouri Wolfson was interviewed for and appeared in a December 14, 2008 WGN News segment on cell phone tracking.

Title: Panel discussion led by Vonu Thakuriah at ITS World Congress

Media Outlet/Organization: Intelligent Transportation Systems World Congress Special Session

Activity Date: 10/13/2007

Description: IGERT Co-PI Piyushimita (Vonu) Thakuriah led panel of faculty and researchers on "ITS and Higher Education," at the Intelligent Transportation Systems World Congress Special Session in Beijing, China, October 13, 2007.

Title: Pete Nelson highlights IGERT work to UIC College of Engineering

Media Outlet/Organization: UIC College of Engineering

Activity Date: 04/16/2008

Description: Co-PI Pete Nelson highlighted the work of the CTS IGERT during a forum for UIC College of Engineering students, staff, faculty and alumni, April 16, 2008.

Title: Pete Nelson highlights IGERT work to UIC College of Engineering

Media Outlet/Organization: UIC College of Engineering

Activity Date: 04/17/2008

Description: Co-PI Pete Nelson highlighted the work of the CTS IGERT during a forum for UIC College of Engineering students, staff, faculty and alumni, April 17, 2008.

Title: PI Wolfson delivers Distinguished Speech at Peking University

Media Outlet/Organization: Peking University

Activity Date: 10/25/2012

Description: New Research Directions in Intelligent Transportation

Title: PI Wolfson delivers invited address

Media Outlet/Organization: French School on Ambient Intelligence in Lille, France

Activity Date: 07/06/2011

Description: Summer School in which Wolfson delivered the lecture: Silence of the labs: Why Are We Still Commuting the Way We Did 40 Years Ago?

Title: PI Wolfson delivers keynote speech

Media Outlet/Organization: 13th International Conference on Mobile Data Management, Bengaluru, India

Activity Date: 07/03/2012

Description: Data Management in Intelligent Transportation Systems

Title: PI Wolfson leads panel discussion at Dagstuhl Invitational Seminar

Media Outlet/Organization: Dagstuhl Invitational Seminar 12331: Mobility Data Mining and Privacy, Germany

Activity Date: 08/12/2012

Description: Mobility Data Mining and Privacy

Title: PI Wolfson scheduled to deliver keynote address

Media Outlet/Organization: 2012 Mobile Data Management Conference

Activity Date: 05/23/2012

Description: Major conference in the data management area.

Title: PI Wolfson speaks at Hong Kong Society for Transportation Studies

Media Outlet/Organization: Hong Kong Society for Transportation Studies

Activity Date: 10/20/2012

Description: Data Management in Intelligent Transportation Systems

Title: PI Wolfson speaks at Northwestern University Transportation Center
Media Outlet/Organization: Northwestern University
Activity Date: 11/10/2011
Description: "Ranking of Information in Intelligent Transportation Systems"

Title: PI Wolfson speaks at Shonan Seminar on Social Issues in Computational Transportation Science
Media Outlet/Organization: Shonan Seminar on Social Issues in Computational Transportation Science
Activity Date: 12/16/2012
Description: Social Issues in Computational Transportation Science

Title: PI Wolfson speaks at UIUC
Media Outlet/Organization: University of Illinois at Urbana Champaign, CyberInfrastructure and Geospatial Information (CIGI) Lab
Activity Date: 03/01/2013
Description: New Research Directions in Intelligent Transportation

Title: PI Wolfson speaks in Microsoft
Media Outlet/Organization: Microsoft Research Asia
Activity Date: 10/01/2012
Description: New Research Directions in Urban Computing

Title: Portable 2008 panel discussion featuring IGERT PI
Media Outlet/Organization: The 2nd IEEE International Interdisciplinary Intersociety Conference on Portable Information Devices
Activity Date: 08/01/2008
Description: Panel on "New and emerging technologies in portable devices " at Portable 2008 IGERT PI Ouri Wolfson, Garmisch-Partenkirchen, Germany, Aug. 2008.

Title: Poster presentation by IGERT associate at Midwest Database Research Symposium
Media Outlet/Organization: Midwest Database Research Symposium, University of Illinois at Chicago
Activity Date: 10/04/2008
Description: Poster presentation by IGERT associate Bo Xu on CTS IGERT at Midwest Database Research Symposium, October 2008.

Title: Poster presentation by IGERT associate at Midwest Database Research Symposium
Media Outlet/Organization: Midwest Database Research Symposium, Purdue University
Activity Date: 04/14/2007
Description: Poster presentation by IGERT associate Masaaki Tanizaki at Midwest Database Research Symposium, April 2007

Title: Poster presentation by IGERT fellow at Midwest Database Research Symposium

Media Outlet/Organization: Midwest Database Research Symposium, University of Illinois at Chicago

Activity Date: 10/04/2008

Description: Poster presentation by IGERT fellow Joel Booth on "A Data Model and Query Language for Urban Transportation Networks" at Midwest Database Research Symposium, October 2008.

Title: Presentation at Indian Institute of Technology

Media Outlet/Organization: Indian Institute of Technology

Activity Date: 06/24/2013

Description: This was a two-day workshop sponsored by the Volvo Research and Educational Foundation. Audience included government officials, civic leaders, private firms, and IIT faculty and students. Kazuya Kawamura presented two works on freight.

Title: Presentation by IGERT co-PI at Brookings Institute

Media Outlet/Organization: Joint Census Bureau and Brookings Institute Workshop on Local Employment Dynamics

Activity Date: 02/01/2007

Description: Presentation by IGERT co-PI Piyushimita (Vonu) Thakuriah on "Potential for Transportation Planning and Programming," at Joint Census Bureau and Brookings Institute Workshop on Local Employment Dynamics, February 1, 2007.

Title: Presentation by IGERT co-PI to Federal Transit Administration

Media Outlet/Organization: Federal Transit Administration, US Department of Transportation

Activity Date: 02/01/2007

Description: Presentation by IGERT co-PI Piyushimita (Vonu) Thakuriah, "National Longitudinal Travel Data," to Federal Transit Administration, US Department of Transportation, February 1, 2007.

Title: Presentation by IGERT co-PI to NAVTEQ

Media Outlet/Organization: NAVTEQ

Activity Date: 10/25/2006

Description: Presentation by IGERT co-PI Piyushimita (Vonu) Thakuriah on "Design of a Prototype Travel Time Information System for Dynamic Content Dissemination and Management" to NAVTEQ Chicago headquarters, October 25, 2006.

Title: Presentation by IGERT faculty to ITS Midwest Annual Meeting

Media Outlet/Organization: 2007 ITS Midwest Annual Meeting

Activity Date: 03/22/2007

Description: Presentation by IGERT faculty Abolfazl Mohammadian (with Timothy Bapton), "Road Test and Effectiveness of Ramp Metering Algorithms," at the 2007 ITS Midwest Annual Meeting, March 22, 2007

Title: Presentation by IGERT fellow at UIC Student Research Forum

Media Outlet/Organization: UIC Student Research Forum

Activity Date: 04/17/2009

Description: Presentation by IGERT fellow Joel Booth on "A Data Model for Trip Planning in Multimodal Transportation Systems" at the UIC Student Research Forum, April 2009.

Title: Presentation by IGERT PI at GeoPkdd Workshop

Media Outlet/Organization: Geographic Privacy-aware Knowledge Discovery and Delivery

Activity Date: 09/11/2006

Description: Presentation by IGERT PI Ouri Wolfson, "Mobile Peer-to-peer Computing (Mobi-Dik)," to GeoPkdd Workshop on Knowledge Discovery for Sustainable Mobility in Amsterdam, September 11, 2006.

Title: Report to Congress by IGERT Co-PI

Media Outlet/Organization: Federal Transit Administration, U.S. DOT & CTAA

Activity Date: 06/01/2008

Description: Report to U.S. DOT summarized in DOT's report to U.S. Senate Comm. on Banking, Housing, and Urban Affairs, U.S. House of Rep. Comm. on Trans. & Infrastructure, GAO and U.S. Dep. of Labor. Led to introduction of U.S. Senate Bill S. 3466.

Title: Seminar by IGERT adviser at Cornell University

Media Outlet/Organization: Cornell University

Activity Date: 04/16/2009

Description: Invited seminar by adviser Jane Lin, "Understanding Issues and Challenges in Freight Transportation and Emission Modeling?", Cornell University, Ithaca, New York.

Title: Seminar by IGERT faculty at Sharif University of Technology

Media Outlet/Organization: Department of Civil Engineering, Sharif University of Technology

Activity Date: 09/26/2006

Description: Seminar by IGERT advisor Abolfazl Mohammadian, "An Activity-Based Microsimulation Model of Travel Demand in the Jakarta Metropolitan Area," to the Department of Civil Engineering, Sharif University of Technology, September 26, 2006

Title: Seminar by IGERT faculty at University of Illinois at Urbana-Champaign

Media Outlet/Organization: Department of Civil Engineering, University of Illinois at Urbana-Champaign

Activity Date: 04/04/2007

Description: Seminar by IGERT advisor Abolfazl Mohammadian, "Microsimulation and Policy Applications of Activity-Based Modeling System of Travel Demand," to the Department of Civil and Engineering at the University of Illinois at Urbana-Champaign, April 4 2007

Title: Seminar by IGERT faculty to Chicago Area Transportation Modeling Users Group
Media Outlet/Organization: Chicago Area Transportation Modeling Users Group
Activity Date: 02/07/2007

Description: Seminar by IGERT advisor Abolfazl Mohammadian (with Yong-Ping Zhang), "Travel Data Simulation: Investigating the Transferability of Household Travel Survey Data," to Chicago Area Transportation Modeling Users Group, February 2, 2007

Title: Seminar by IGERT faculty to University of Calgary

Media Outlet/Organization: Department of Civil Engineering, University of Calgary

Activity Date: 07/10/2006

Description: Seminar by IGERT advisor Abolfazl Mohammadian, "An Activity-Based Travel Demand Modeling for Transportation System Optimization, Policy Evaluation, and Impact Analysis," to the Department of Civil Engineering, University of Calgary, July 7, 2006

Title: Seminar by IGERT PI at Chicago State University

Media Outlet/Organization: Chicago State University

Activity Date: 03/23/2009

Description: Recruitment presentation by IGERT PI Ouri Wolfson on CTS-IGERT opportunities.

Title: Seminar by IGERT PI at Dagstuhl Invitational Seminar

Media Outlet/Organization: Dagstuhl Invitational Seminar 08421: Uncertainty Management in Information Systems, Germany

Activity Date: 10/01/2008

Description: Presentation by IGERT PI Ouri Wolfson on "Uncertainty in Moving Object Databases?" at Dagstuhl, Germany, Oct. 2008.

Title: Seminar by IGERT PI at Florida International University

Media Outlet/Organization: Florida International University

Activity Date: 01/01/2009

Description: Presentation by IGERT PI Ouri Wolfson on "Information Technology and Intelligent Transportation - A Marriage Made in Heaven?" at Florida International University, Jan. 2009.

Title: Seminar by IGERT PI at Israel Institute of Technology

Media Outlet/Organization: Technicon, Israel Institute of Technology

Activity Date: 11/21/2006

Description: Seminar by IGERT PI Ouri Wolfson, "Mobile P2P Search," at Technicon, Israel Institute of Technology, November 21, 2006

Title: Seminar by IGERT PI at Marquette University

Media Outlet/Organization: Marquette University

Activity Date: 04/01/2009

Description: Presentation by IGERT PI Ouri Wolfson on "Information Technology and Intelligent Transportation - A Marriage Made in Heaven?" at Marquette University, April

2009.

Title: Seminar by IGERT PI at NASA Ames Research Center

Media Outlet/Organization: NASA Ames Research Center

Activity Date: 01/11/2007

Description: Seminar given by IGERT PI Ouri Wolfson, "Search-and Discover in Mobile P2P Databases," at NASA Ames Research Center, January 11, 2007

Title: Seminar by IGERT PI at National University of Ireland at Maynooth

Media Outlet/Organization: National University of Ireland at Maynooth, StratAG Sensor Strand Kick-off Meeting

Activity Date: 11/01/2008

Description: Presentation by IGERT PI Ouri Wolfson on "IGERT: Graduate Program in Computational Transportation Science" at National University of Ireland at Maynooth, Nov. 2008

Title: Seminar by IGERT PI at Politecnico di Milano

Media Outlet/Organization: Politecnico di Milano

Activity Date: 12/11/2006

Description: Seminar by IGERT PI Ouri Wolfson, "Search-and-Discover in Mobile P2P Databases," at Politecnico di Milano, December 11, 2006

Title: Seminar by IGERT PI at University of Illinois at Urbana-Champaign

Media Outlet/Organization: University of Illinois at Urbana-Champaign

Activity Date: 03/01/2009

Description: Presentation by IGERT PI Ouri Wolfson on "Information Technology and Intelligent Transportation - A Marriage Made in Heaven?" at University of Illinois at Urbana-Champaign, Feb. 2009.

Title: Seminar by IGERT PI at workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad

Media Outlet/Organization: Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad

Activity Date: 03/01/2009

Description: Presentation by IGERT PI Ouri Wolfson on "MOBI-DIK: An Approach to Querying Data in a Mobile Ad Hoc Network?" at the Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Adhoc Networks, March 2009.

Title: Seminar by Ouri Wolfson at Loyola University Chicago

Media Outlet/Organization: Loyola University Chicago

Activity Date: 04/03/2008

Description: Seminar by IGERT PI Ouri Wolfson, "Important Problems in Computational Transportation Science," in Loyola University Chicago's Computer Science Colloquium.

Title: Seminar by Ouri Wolfson at University of Tel Aviv
Media Outlet/Organization: University of Tel Aviv
Activity Date: 02/25/2008
Description: Seminar by IGERT PI Ouri Wolfson, "Information Technology and Intelligent Transportation: A Marriage Made in Heaven," at the University of Tel Aviv, Israel, February 25, 2008.

Title: Seminar by Vonu Thakuriah at Tongji University
Media Outlet/Organization: College of Architecture and Urban Planning, Tongji University, Shanghai, China
Activity Date: 10/08/2007
Description: Seminar by IGERT Co-PI Piyushimita (Vonu) Thakuriah, "Mobility and Accessibility for the Urban Poor: Policies, Analysis and Implementation Strategies," to the College of Architecture and Urban Planning at Tongji University, October 8, 2007.

Title: Spatial-Temporal Databases Panel Discussion featuring IGERT PI
Media Outlet/Organization: Defense Advanced Research Projects Agency
Activity Date: 08/28/2006
Description: "Model the Planet" panel discussion on spatial-temporal databases featuring IGERT PI Ouri Wolfson, August 28, 2006

Title: Trainee Alejandro Blei gives invited talk at NYU Marron Institute Lecture Series
Media Outlet/Organization: NYU Marron Institute Lecture Series
Activity Date: 11/20/2014
Description: Trainee Alejandro Blei gave an invited talk at NYU Marron Institute Lecture Series, with title "Commuting and the Spatial Structure of American Cities".

Title: Trainee Alejandro Blei presents at TRB Annual Meeting
Media Outlet/Organization: TRB Annual Meeting, Washington DC
Activity Date: 01/13/2013
Description: Local and Global Variation in Commute Behavior: Evidence of Scale Effects and Lessons for Theory and Practice

Title: Trainee Bo Xu addresses elementary students
Media Outlet/Organization: Beebe Elementary School, Naperville, IL
Activity Date: 11/21/2011
Description: Trainee Bo Xu talked to fourth grade students at Beebe Elementary School in Naperville, IL. He described CTS inventions.

Title: Trainee Daniel Ayala presents at ACMGIS conference
Media Outlet/Organization: 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, Californ
Activity Date: 11/06/2012
Description: Spatio-temporal Matching: Algorithms for Transportation Applications

Title: Trainee Daniel Ayala presents at conference
Media Outlet/Organization: 20th International Conference on Advances in Geographic Information Systems, Redondo Beach, Californ
Activity Date: 11/06/2012
Description: Pricing of Parking for Congestion Reduction

Title: Trainee Daniel Ayala presents at MATCH-UP conference
Media Outlet/Organization: 2nd International Workshop on Matching Under Preferences, Budapest, Hungary
Activity Date: 07/19/2012
Description: Stability of Marriage and Vehicular Parking

Title: Trainee Daniel Ayala presents at MDM conference
Media Outlet/Organization: 13th International Conference on Mobile Data Management, Bengaluru, India
Activity Date: 07/23/2012
Description: Parking in Competitive Settings: A Gravitational Approach

Title: Trainee Emily Mugler invited talk
Media Outlet/Organization: Boston University's Sargent College
Activity Date: 02/01/2013
Description: Advances for efficient communication in brain-computer interface

Title: Trainee Emily Mugler talks to undergraduates
Media Outlet/Organization: University of Akron
Activity Date: 10/10/2011
Description: Trainee Emily Mugler spoke to freshmen and sophomore students who were undeclared science majors. She discussed how she became involved in research.

Title: Trainee Emily Mugler to judge high school competition
Media Outlet/Organization: Wheeling High School
Activity Date: 04/01/2013
Description: Judging Wheeling High School's Midwest Research Competition "Positive Impact"

Title: Trainee James Biagioni featured in blog on SynSys Conference
Media Outlet/Organization: Volatile and Decentralized - Matt-Welsh.Blogspot.com
Activity Date: 11/04/2011
Description: Blogger Matt Welsh called the talk by James Biagioni on using smartphone data to automatically determine bus routes and schedules, awesome, his "best talk" award well deserved and the EasyTracker app an amazing idea.

Title: Trainee James Biagioni featured on Google Tech Talks

Media Outlet/Organization: Google Tech Talks

Activity Date: 03/07/2013

Description: James Biagioni presented his work on Map Inference from GPS Traces to a Google audience. His presentation was recorded, and is now being featured as a Google Tech Talk.

Title: Trainee James Biagioni presents poster at UIC Science Forum

Media Outlet/Organization: University of Illinois at Chicago Student Research Forum

Activity Date: 04/17/2012

Description: Trainee James Biagioni presented a poster, "Inferring Road Maps from GPS Traces: Survey and Comparative Evaluation", based on his most recent research at UIC Student Research Forum. He won the 2nd place prize for excellence.

Title: Trainee Qin Chen presents at CFIRE Student Symposium

Media Outlet/Organization: CFIRE Student Symposium, University of Memphis, TN

Activity Date: 02/05/2013

Description: Environmental and cost-benefit evaluation of urban delivery consolidation

Title: Trainee Qin Chen presents at INFORMS

Media Outlet/Organization: INFORMS "City Logistics Impact Evaluations" session

Activity Date: 10/14/2012

Description: How Carbon Pricing Affects the Efficiency of Urban Delivery Cooperation?

Title: Trainee Qin Chen presents at Mid-Continent Transportation Research Forum

Media Outlet/Organization: 2012 Mid-Continent Transportation Research Forum, Madison, Wisconsin

Activity Date: 09/06/2012

Description: Optimal Routing for EcoDriving Under Uncertainties

Title: Trainee Qin Chen presents at TRB Annual Meeting

Media Outlet/Organization: 92nd TRB Annual Meeting, Washington D.C.

Activity Date: 01/13/2013

Description: An Evaluation Framework of Urban Distribution Channel in the Last-Mile Delivery Problem

Title: Trainee Shuo Ma presents at ICDE conference

Media Outlet/Organization: 29th IEEE International Conference on Data Engineering

Activity Date: 04/08/2013

Description: T-share: A large-scale dynamic ridesharing service

Title: Transit Genie research featured in UIC paper the Chicago Flame

Media Outlet/Organization: Chicago Flame newspaper

Activity Date: 01/15/2011

Description: UIC's paper the Chicago Flame feature article, "Catching a bus? There's an app for that" describes the TransitGenie app that can be downloaded to an iPhone.the app

was developed by CTS faculty Dr. Jakob Eriksson and Fellows Biagioni and Gerlich.

Title: TransitGenie app featured in Chicago Red Eye

Media Outlet/Organization: Chicago Red Eye

Activity Date: 01/27/2011

Description: An article entitled "Track Starts" appeared in the Chicago Red Eye. It discussed the TransitGenie, a transit navigation iPhone app developed by Dr. Jakob Eriksson together with CTS trainees James Biagioni and Tomas Gerlich.

Title: Tutorial by IGERT PI to ICWMC'07

Media Outlet/Organization: Third International Conference on Wireless and Mobile Communications

Activity Date: 03/04/2007

Description: Tutorial by IGERT PI Ouri Wolfson, "Mobile P2P Databases," at the Third International Conference on Wireless and Mobile Communications in Guadeloupe, March 4, 2007.

Title: UIC Bus Tracker projector featured in news article by the Chicago Pulse

Media Outlet/Organization: Chicago Pulse

Activity Date: 12/13/2010

Description: Chicago Pulse published an article entitled "Brrr! Is it here yet? UIC bus tracker now available?". The article described the UIC Shuttle tracker system developed by CTS faculty member, Jakob Eriksson, and CTS fellow, Tomas Gerlich.

Title: UIC reports on trainee James Biagioni award

Media Outlet/Organization: UIC News

Activity Date: 11/16/2011

Description: The UIC News, university newspaper, reported on the best presentation award received by James Biagioni at the SenSys Conference held in Seattle, WA.

Title: Wolfson delivers Distinguished Lecture

Media Outlet/Organization: University of Maryland Baltimore County,

Activity Date: 12/02/2011

Description: "Silence of the labs: Why Are We Still Commuting the Way We Did 40 Years Ago?"

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