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 systems.
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.

- 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 it's 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 where 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 taxies 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 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 Ouksel 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 SBSD under more realistic conditions and identify ways it can be more closely fitted to the urban environment. Beyond that, the capacity of SBSD 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 Thakuriah, 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 Cottril 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 Internation 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)

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

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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
Role in Project: Trainee/Associate Advisor
Name: Bhaskar DasGupta  
**Role in Project:** Trainee/Associate Advisor

Name: Barbara DiEugenio  
**Role in Project:** Trainee/Associate Advisor

Name: Jakob Eriksson  
**Role in Project:** Trainee/Associate Advisor

Name: Kazuya Kawamura  
**Role in Project:** Trainee/Associate Advisor

Name: Jane Lin  
**Role in Project:** Trainee/Associate Advisor

Name: Abolfazl Mohammadian  
**Role in Project:** Trainee/Associate Advisor

Name: Peter C. Nelson  
**Role in Project:** Co-PI and Trainee/Associate Advisor

Name: Aris M. Ouksel  
**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  
**Role in Project:** Trainee/Associate Advisor

Name: Robert H. Sloan  
**Role in Project:** Co-PI and Trainee/Associate Advisor

Name: Piyushimita Thakuriah

**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
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

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
2012-2013 Project Year - Trainee supported for 0 months

Associates

Name: Hyung-Ju Cho  

Name: Peng Fan  

Name: James G. Haran  

Name: Yan Luo  

Name: Shuo Ma  

Name: Xinzhen Niu  

Name: Leon O. Stenneth  

Name: Masaaki Tanizaki  

Name: Matteo Vigano  

Name: Ting Zhong  

Name: Xinjuan Zhu  
Publications, Presentations, and Patents

Journal Articles in Refereed Publications


Wolfson, O., Sistla, P. & Xu, B.*, (2012). Information search and processing in Intelligent...
5a. Journal Articles in Refereed Publications


JOURNAL ARTICLES

Journal publications

CTS-IGERT trainees are marked with an asterisk *


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


**Journal Articles in Non-Refereed Publications**


**Books**


**Book Chapters**


Hoboken, NJ: John Wiley & Sons, Inc.


**Patent Applications**


Patents


Patents Awarded


Conference Publications


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).


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. "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).


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).


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; Schewepe, Heinz; Steinmetz, Rita; and Turkier, 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.


Kawamura, K., Sriraj, P.S. Surat, H., and Mennninger, 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


Portugal.


Denver, CO.


Vallarta, Mexico.


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


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


SIGMOD Record 37(1): 5-11.


Conference Presentations


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,


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.


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


November, 2014.


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


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.


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


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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.


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, 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.


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.


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


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

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.

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. 10th International Conference on Verification, Model
Checking and Abstract Interpretation (VMCAI2009), Savannah, Georgia.

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.

linkages and externalities of trucking activities. National Urban Freight Conference.

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.

11th International Conference on Advanced Systems for Public Transport, Hong Kong.

analysis in the Chicago area. 89th TRB Annual Meeting, Washington, D.C.

reducing temporal saturation. IEEE NTMS, Cairo, Egypt.

as real-time speed probes. 89th Transportation Research Board Annual Meeting, National


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


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


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


Cotrtrill, 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.


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.


**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 an  
**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  
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.  

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 webinair 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

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-Berkeley, 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

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
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  
**Media Outlet/Organization:** IADIS (International Association for Development of the Information Society) International Conference on Applied Computing  
**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 computationttransportation 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 Environment
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 Illinois
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  

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  

Title: Faculty Jane Lin visits 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 and 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.
Faculty member Dr. Robert Sloan gives keynote speech

**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.

Freight Congestion in the Chicago Metropolitan Area testimony by IGERT CO-PI  

**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.).

IGERT Poster Competition  

**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.

Industry-University R&D Collaboration on Intelligent Transportation Systems organized and led by IGERT Co-PI.  

**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.

Intelligent Traveler Assistant (developed by IGERT project) in media  

**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.

Kazuya Kawamura invited to TRB event  

**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 Universidad
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 Universidad.

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) La
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

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
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  

Title: Seminar by IGERT adviser at Cornell University  
Media Outlet/Organization: Cornell University  
Activity Date: 04/16/2009  

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  

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  

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

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.
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?"