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SEND YOUR CONTRIBUTIONS

Information for Contributors

Announcements, feature articles, book and meetings reviews, opinions, letters to the editor, professional activities, Abstracts of reports, and other material of interest to the ITS community are solicited. Please submit electronic material for consideration in any of the following formats: Microsoft Word, OpenOffice, plain ASCII, rich text format (rtf), or portable document format (pdf) to the Editor-in-Chief at kamijo@iis.u-tokyo.ac.jp. You can also use this Google form: http://goo.gl/forms/xpgl8WLt9F

SOCIETY NEWS

From the Editor
Shunsuke Kamijo

Dear readers, We have the second issue of 2017 fully loaded with interesting information.

At first, our President, Daniel Zeng announced Board of Governors election result. Congratulations for the new BoG members! We have a number of CFPs for ITSC and other ITS related conferences and workshops coming in 2017. We are publishing transactions on ITSC and IV. Transactions on IV started almost one and a half year ago and the number of publishing papers are getting increased.

There is announcements about Call for Nominations for "IEEE ITS Awards" and "Best Ph.D. Dissertation Award". We have also announcements about "Summer School on Cooperative Interacting Automobiles" and "Summer School on Intelligent Vehicles". We are also publishing the conference report of ITSC2016 and some interesting information about joining our society.

Membership has a lot of benefits plus the pride of helping out the ITS Society serving our community and colleagues. Think of it!
Dear IEEE ITS Society members:

As you have probably seen from our society’s website and email announcements, several new officers were elected at the last IEEE ITS Society Board of Governors’ meeting as part of IEEE ITSC 2016. The term of these new officers started on January 1, 2017. Professor Miguel Ángel Sotelo from University of Alcalá is the society’s President Elect. Professor Matthew Barth from University of California Riverside serves as the Vice President for Financial Activities. Professor Javier J. Sanchez Medina from University of Las Palmas de Gran Canaria serves as the Vice President for Technical Activities. Professor Cristina Olaverri from Technikum Wien starts her official term as the Vice President for Educational Activities after a successful interim appointment. Professor Azim Eskandarian from Virginia Tech serves on as the Vice President for Administrative Activities. To fill the vacancies left by the election, with the BOG confirmation, I have appointed Professor Ljubo Vlacic from Griffith University as the interim Editor in Chief of the IEEE ITS Magazine, Professor Shunsuke Kamijo from the University of Tokyo as the Editor of the ITS Newsletters, and Professor Maryam Kaveshgar from the National Technical University of Ukraine as the Editor of the ITS Podcast.

The ITS Society members also elected five new BOG members with their term ending on December 31, 2019: Professor Fernando Garcia from Universidad Carlos III de Madrid, Professor Lingxi Li from Indiana University-Purdue University Indianapolis, Professor Jeffrey Miller from University of Southern California, Professor Jonas Sjoberg from Chalmers University of Technology, and Professor Kazuya Takeda from Nagoya University.

On behalf of the society, I would like to thank the ongoing officers and BOG members for their exemplary services and contributions to the community. The society will continue to rely on your expertise and leadership in various endeavors. For newly elected or appointed officers
and BOG members, congratulations! Thank you all for your willingness to step up and lead efforts to make our community stronger and bigger!

More good news. One of our own, Professor Alberto Broggi from University of Parma and VisLab, who served as the President of our society and the Editor in Chief of IEEE Transactions on ITS in the past, won the prestigious 2017 IEEE Medal for Environmental and Safety Technologies for his “leadership in vehicular environmental perception, and for setting worldwide milestones in safe and reliable intelligent vehicles.” This is a huge honor! We will celebrate together Professor Broggi’s accomplishments and this important IEEE recognition in one of our flagship conferences this year.

Among newly-elevated IEEE Fellows for the Class of 2017, two are from the ITS Society: Professor Pitu Mirchandani, from Arizona State University, for his “contributions to stochastic dynamic networked systems in intelligent transportation and production systems,” and Professor Li Li, from Tsinghua University, for his “contributions to intelligent transportation systems and vehicles.” Congratulations!

We have accomplished a lot collectively in 2016. In addition to further developing and expanding various valuable and impactful projects we have already started, lots of new opportunities are knocking on our door in 2017, particularly in the space of crosscutting IEEE initiatives involving multiple technical communities. IEEE recognizes that emerging technologies typically cut across multiple fields of studies and that their potentials can only be realized through true partnership and interactions between technical communities and the general public. This message summarizes several initiatives of strong relevance to ITS.

- “Design for Ethics”: The ethical and societal impacts of technology are attracting increasing attention from the technical communities, the policy makers, the legal community, and the general public. Along with the fast-paced development of intelligent vehicles and autonomous transportation systems, ITS has already become one of the featured technology areas in the broad technology ethics discussions. Within IEEE, multiple communities are working together to define the research agenda for technology ethics studies and foster dialogs in both technical and nontechnical settings. Our community should have a commanding presence in this growing area of importance.
- “North and South Poles”: The IEEE has started a committee to “identify ways in which IEEE can efficiently contribute to the different ongoing and planned initiatives to study and address changes that the North and South poles are experiencing from the environmental, communications, transportation, educational, and outreach points of view.” Many of these challenges have direct relevant to ITS and could broaden the scope of our field. Our community should play a significant role in this worthy endeavor.
- “Food Engineering”: A multi-disciplinary team is being formed by the IEEE to explore how to engage a diverse set of IEEE technologies to facilitate food production throughout its entire lifecycle. The goal is to aim for energy/water/fertilizer/pesticide efficiency and safe food production and delivery. ITS is clearly a major component of this potentially impactful initiative.
- IEEE has set up a formal mechanism called “Future Directions Initiatives” to encourage
joint efforts from multiple IEEE technical communities (http://www.ieee.org/about/technologies/index.html). Many of these initiatives (e.g., Smart Cities, 5G, Green ICT, Big Data, Internet of Things) have direct ITS relevance.

If you are interested in any of these crosscutting efforts, you are welcome to email me at zeng@email.arizona.edu. We are in the process of setting up technical subcommittees to organize events and activities tackling the relevant ITS challenges. Please consider to contribute!

I look forward to meeting many of you at IV 2017!

Sincerely,

Daniel Zeng
President, IEEE ITS Society
IEEE INTELLIGENT TRANSPORTATION SYSTEMS SOCIETY

Changing How the World Moves

MOVING FAST

The road less traveled, made famous by American poet Robert Frost’s 1916 poem “The Road Not Taken,” has become much busier for the majority of global citizens.

According to the United Nations, more than 50 percent of the world’s population lives in urban areas. Today, the most urbanized regions include Northern America (82 per cent living in urban areas in 2014), Latin America and the Caribbean (80 per cent), and Europe (73 per cent). And that number is expected to grow.

Keeping people safe as they travel is an imperative – one that has been the mission of IEEE’s Intelligent Transportation Systems Society for nearly 20 years.

From the early days of loop detectors for traffic light signal management to civilian use of GPS, to tomorrow’s connected cars and advanced automation, the ITS industry not only enhances the quality of life, it increases passenger safety and reduces pollution.

JOIN NOW

Become a member of the IEEE ITS Society and join colleagues from around the world, spanning not just continents and countries but multiple disciplines in the ITS field.

ITS Society Membership includes access to ideas, events and colleagues that are moving transportation in a whole new direction.

The global intelligent transportation system (ITS) market is expected to reach US $66.5 billion by 2024.

The usage of ITS to reduce road accidents and increase safety is a major driving force for the ITS market.”

source: www.businesswire.com

RATES

IEEE members receive special prices for Society memberships. If you are not an IEEE member, you may wish to join as an Affiliate.

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Price</th>
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<tbody>
<tr>
<td>IEEE Professional Member</td>
<td>US $35.00</td>
</tr>
<tr>
<td>IEEE Student Member</td>
<td>US $18.00</td>
</tr>
<tr>
<td>Society Affiliate</td>
<td>US $109.50</td>
</tr>
</tbody>
</table>

sites.ieee.org/itss

more details on reverse
Publications

- IEEE Transactions on Intelligent Transportation Systems (electronic)
- IEEE Intelligent Transportation Systems Magazine (electronic and print)
- IEEE Transactions on Intelligent Vehicles (discounted)
- IEEE RFID Virtual Journal (electronic)
- ITS Newsletter (electronic)
- ITS Podcast

Conferences

The Intelligent Transportation Systems Society hosts several annual conferences offering opportunities to hear first-hand from colleagues around the world who are advancing the field.

- IEEE Intelligent Transportation Systems Conference (ITSC): annual flagship conference covering all things ITS.
- IEEE Intelligent Vehicles (IV) Symposium: premier forum for intelligent and cooperative vehicle research and applications.
- In addition, a number of more tightly-focused conferences take place each year including:
  - International Conference on Vehicular Electronics and Safety
  - Service Operations and Logistics, and Informatics (SOLI)
  - International Conference on Intelligence and Security Informatics (ISI)
  - International Conference on Megatronic and Embedded Systems and Applications (MESA)
  - Forum on Integrated and Sustainable Transportation Systems (FISTS)

Awards

The ITS Society recognizes the accomplishments of members in all aspects of the field from leadership, research, development and implementation.

- IEEE ITS Institutional Lead Award
- IEEE ITS Outstanding Application Award
- IEEE ITS Outstanding Research Award
- IEEE Lifetime Achievement Award
- IEEE ITSS Best Dissertation Award

Educational Offerings

The Society offers a growing range of courses to develop relevant skills for research and industry.

- A Primer on Security and Privacy in Vehicular Ad-Hoc Networks
- Frontiers in ITS: Transportation 5.0
- Introduction to Vehicular Robotic Modeling with V-REP
- Autonomous Vehicles, Platooning and Driver Personalization

Chapters

Leverage local colleagues to enhance your professional network and continue industry connections outside of annual conferences while attending lectures by experts in the field.

Trending Topics

Stay up to date on emerging ideas including:

- Autonomous and cooperative driving
- Transportation communication
- Transportation management
- Smart Cities Initiative
- Driving assistance programs
- Advanced transportation sensing and analysis

The North America ITS industry is anticipated to reach US $26.29 billion by 2024. Increased government focus on passenger safety and implementation of traffic management projects and initiatives are propelling the demand for intelligent transportation system.”

source: www.businesswire.com
2017 IEEE ITS Awards

Call for Nominations

The prestigious
- IEEE ITS Outstanding Research Award,
- IEEE ITS Outstanding Application Award, and
- IEEE ITS Institutional Lead Award

are conferred annually to honor ITS researchers, practitioners, and research/development teams who have made significant contributions to research in ITS related fields (for ITS Research Award), developed and deployed successful ITS systems or implementations (for ITS Application Award), and demonstrated leadership in promoting ITS technologies (for ITS Institutional Lead Award). These awards have been established to recognize, promote, and publicize major research contributions, application innovations with real-world impact, and ITS institutional leadership.

In addition, exemplary contributions to Intelligent Transportation Systems over a career can be recognized through the IEEE ITS Lifetime Achievement Award. To be eligible for the lifetime award, the nominee should be retired and no longer active in ITS. Additionally, should be IEEE Life Member eligible.

- Nomination Materials
  Each application must consist of the following materials:
  1. A 5 page summary statement providing sufficient detail for the evaluation of the innovations and impact of the work.
  2. At least 3 letters of recommendation from recognized peer researchers, customers or users of the developed application, and organizations attesting to the work’s significance and impact.

- Evaluation
  A dedicated selection committee will evaluate all qualified nominations for these IEEE ITS Awards. Awards will be announced in October at the ITSC 2017 conference in Yokohama, Japan where the recipients will give featured presentations of their work.

- Submission Deadline
  Please submit the nomination materials by email before July 1, 2017 to Brendan Morris, ITSS Vice President for Membership, at brendan.morris@unlv.edu.
IEEE ITSS Best Ph.D. Dissertation Award

Call for Applications

IEEE ITSS Best Dissertation Award is given annually for the best dissertation in any ITS area that is innovative and relevant to practice. This award is established to encourage doctoral research that combines theory and practice, makes in-depth technical contributions, or is interdisciplinary in nature, having the potential to contribute to the ITSS and broaden the ITS topic areas from either the methodological or application perspectives.

- Application Materials
  Each application must consist of the following materials:
  1. A doctoral dissertation written by the applicant in any language, no more than 18 months prior to the submission deadline.
  2. A summary of the dissertation in English of up to 3 pages in length written by the Ph.D. candidate, highlighting the significance of the problem, the technical approach taken, application context and potential, and the scope of the dissertation.
  3. Sample published paper(s) in English based on the dissertation written primarily by the Ph.D. candidate in scientific journals such as the IEEE Transactions on ITS, IEEE ITS Magazine, or IEEE Transactions on Intelligent Vehicles.
  4. Listing of all publications by the applicant in the related field(s).
  5. A letter of recommendation from the applicant’s dissertation advisor that assesses the significance of the research, attests to the originality of the work, and comments on the engagement of the applicant in the ITS field and the IEEE ITS Society.

- Prize and Presentation
  The winners will receive a cash prize and invitation to be recognized and present their work in October at the ITSC 2017 conference in Yokohama, Japan. Awardees’ work will be featured in ITSS Transactions, ITS Magazine, and ITS Newsletter, when appropriate.

<table>
<thead>
<tr>
<th>Place</th>
<th>Prize Amount (USD)</th>
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<tbody>
<tr>
<td>1st</td>
<td>$2000</td>
</tr>
<tr>
<td>2nd</td>
<td>$1000</td>
</tr>
<tr>
<td>3rd</td>
<td>$500</td>
</tr>
</tbody>
</table>

- Evaluation
  A dedicated selection committee will evaluate all qualified applications for the IEEE ITS Best Ph.D. Dissertation Awards and make selections.

- Submission Deadline
  Please submit the application materials by email before **July 1, 2017** to Brendan Morris, ITSS Vice President for Membership, at brendan.morris@unlv.edu.
Introduction

We are very pleased to bring to our community this small summary reporting the main features of the 19th edition of the flagship conference of our Society, the IEEE International Conference on Intelligent Transportation Systems. Brought for the first time to South America, IEEE ITSC 2016 was held in Rio de Janeiro, from 1st to 4th of last November, at the Convention Center of Windsor Oceanico Hotel. The City of Rio is one of the major economic and cultural hubs of South America, and sits at the heart of the Southeastern Region, contributing greatly for the Brazilian GDP. A cosmopolitan metropolis, known worldwide for its scenic beauty and its natural resources, the city provides a harmonious and agreeable environment for its residents and visitors, both for leisure and work. These combined with Rio’s infrastructure render it an important center for commerce and services, with the advantages of a modern and diversified industrial sector.

We are very confident that those who had the opportunity to attend ITSC 2016 had a great time in Rio!

Technical Program

We were enormously delighted to have a very interesting, attractive and contemporary technical program during IEEE ITSC 2016. This was only possible due to the collaboration of the whole community, especially those organizing special sessions, workshops, and tutorials during the event, and of course due to all authors that contributed a great number of high-quality submissions, which allowed us to produce the resulting program for the conference.

We had in total 752 submissions from 44 countries and 6 continents. As it has been happening in the previous editions of ITSC, the top 3 countries in terms of submissions were: China (134), Germany (114) and USA (99). However, we were surprised with 85 submissions of Brazilian authors, making it the 4th country in number of submissions. That was quite exciting as we attracted the attention from the home community to participate at IEEE ITSC in Rio. The total number of submissions from South America was 96, including papers from Colombia, Chile, Argentina and Paraguay. Based on the review process, we noticed that the quality of the submissions was very high overall. After a very careful evaluation process, the program committee decided to accept 361 papers for presentation and publication in the regular sessions. Other 40 papers were selected to compose the sessions of the 5 workshops, equally chosen as a result of a very rigorous evaluation system.

Overall the technical program was organized in 9 parallel tracks and 87 sessions. Among the topics (keywords) that appeared more frequently in the submissions we can highlight: Sensing, Vision, and Perception (99), Simulation and Modeling (77), Driver Assistance Systems (62) and Data Mining and Data Analysis (62). We had a total of 27 sessions dedicated to these topics specifically.
Of course, it would be impossible to organize such a large event without the valuable help of the 157 Associated Editors and 1207 reviewers. We would like to express our deep gratitude for their hard work during the review process and extremely important comments and suggestions that led to the successful technical program of our conference in Rio.

**Invited Speakers**

Besides the technical sessions, we also had the privilege of having 3 distinguished keynote speakers as part of the program: Prof. Mohan M. Trivedi (University of California at San Diego-USA), Prof. Susana Sargento (University of Aveiro-Portugal) and Prof. Antonio A. F. Loureiro (Federal University of Minas Gerais-Brazil).

The title of Prof. Trivedi’s plenary seminar was “Looking at Humans in the Age of Self Driving Vehicles,” in which he emphasized “the need and the implications of utilizing an holistic approach, where driving in a naturalistic context is observed over long periods to learn driving behaviors in order to predict intentions and interactivity patterns of all intelligent agents,” and discussed on “new research avenues in dealing with learning, modeling, active control, perception of dynamic events, and novel architectures for distributed cognitive systems,” vehicles with higher autonomy.

Prof. Susana Sargento, co-founder of Veniam, was the recipient of the 2016 EU Prize for Women Innovators. She talked about the “The Role of Vehicular Networks in Intelligent Transportation Systems,” and described the “latest advances in vehicular network mechanisms and how real and large-scale vehicular network infrastructure is able to provide meaningful performance results, test new network mechanisms and develop new applications for both citizens, transportation and the city, in an Intelligent Transportation System perspective.”

Finally, Prof. Loureiro presented a perspective entitled “Vehicular Traces Are More Than Just Points on a Map.” In his talk, he discussed and showed that “existing real vehicular mobility traces present spatial and temporal gaps that affect their use to evaluate VANET solutions.” He detailed “a method to fill those gaps, leading to ‘calibrated’ traces. While applying his approach to calibrate existing traces,” he discussed how results revealed that indeed those gaps might yield a network topology that differs greatly from reality.
All plenary sessions happened in the main conference room, America III.

**Workshops and Tutorials**
The main conference was preceded by a day of workshops and tutorials, with a great participation of the attendees. The workshops collocated with IEEE ITSC 2016 were the following.

<table>
<thead>
<tr>
<th>Workshop Title</th>
<th>Organizers</th>
</tr>
</thead>
<tbody>
<tr>
<td>8th International Workshop on Planning, Perception and Navigation for Intelligent Vehicles – A bridge between Robotics and ITS technologies</td>
<td>Christian Laugier (INRIA, France), Philippe Martinet (Ecole Centrale of Nantes, France), Urbano Nunes (Coimbra University, Portugal), Christoph Stiller (KIT, Germany)</td>
</tr>
<tr>
<td>6th International Workshop on Artificial Transportation Systems and Simulation</td>
<td>Alberto Fernandez (URJC, Spain), Fenghua Zhu (CAS, China), Shuming Tang (CAS, China)</td>
</tr>
<tr>
<td>2nd International Workshop on Intelligent Public Transports – Toward the Next Generation of Urban Mobility</td>
<td>Luis Moreira-Matias (NEC Laboratories Europe, Germany), Oded Cats (TU Delft, The Netherlands), Daqing Zhang (Institut TELECOM &amp; Maga, France)</td>
</tr>
<tr>
<td>International Workshop on Advanced perception, Machine learning and Data sets</td>
<td>Patrick Shinzato (University of Sao Paulo, Brazil), Cristiano Premebida (Institute for Systems and Robotics, Portugal), Jose Eugenio Naranjo (Universidad Politecnica de Madrid, Spain), Brendan Morris (University of Nevada, USA)</td>
</tr>
<tr>
<td>International Workshop on Simulation of Intelligent Industrial Transportation and Logistics Systems</td>
<td>Luis Dias, Guilherme Pereira, António Vieira (U. Minho, Portugal), António Brito, C. Bragança de Oliveira (FEUP, Portugal), Ana Luisa Ramos (U. Aveiro, Portugal)</td>
</tr>
<tr>
<td>Workshop on Intelligent Transportation Systems in Operation in Rio de Janeiro</td>
<td>Paulo Cezar Ribeiro (PET-COPPE, UFRJ, Brazil), José Mauro Marquez (UVA, Brazil)</td>
</tr>
</tbody>
</table>
Additionally to workshops, we were very pleased to include two tutorials/short courses in the technical program of the first day of our conference in Rio, as listed below.

**Next Generation Sensor Fusion and Environment Perception for Automotive Intelligent Systems**
Presented by:
- Bharanidhar Duraisamy (Daimler AG, Germany)
- Ting Yuan (Mercedes-Benz R&D North America, USA)
- Tilo Schwarz (Daimler AG, Germany)
- Martin Fritzsche (Daimler AG, Germany)

**The Impact of 5G on Connected Vehicle Technology**
Organized by:
- Mary Lynne Nielsen (IEEE Standards Association, USA)
- Bill Ash (IEEE Standards Association, USA)

With participation of:
- J. Roberto de Marca, IEEE Past President
- Roberto Nishimura, New Business Manager, Sercomtel
- James Irvine, Reader, University of Strathclyde
- André Noll Barreto, Professor, University of Brasilia

Both workshop and tutorial sessions were highly participated during. Below are some photos from sessions on the first day of the conference.

**Main Tracks and Special Sessions**
Besides regular sessions of IEEE ITS Conferences, special sessions are also an important part of the technical program, promoting the appropriate environment to foster discussion and collaboration on specific topics of interest. The purpose of special sessions within IEEE ITSC 2016 was to provide a forum for focused discussion on new topics, consolidated research trends, or innovative applications of established approaches in fields of interest to the conference. The Special Sessions integrated in the conference program were the following.
### Designing and Managing Communication in Intelligent Transportation Systems
Organized by Cristiano Maciel Silva (UFSJ, Brazil), Andreas Pitsillides (U. Cyprus, Cyprus)

### Wireless Vehicular Communications
Li Zhu (Beijing Jiaotong University, China), F. Richard Yu (Carleton University, Canada), Tao Tang (Beijing Jiaotong University, China), Bin Ning (Beijing Jiaotong University, China)

### Recent Advances in Motorway Traffic Control
Claudio Roncoli (TU Crete, Greece), Silvia Siri (U. Genova, Italy)

### Cooperative (de-)centralized traffic management
Bernhard Friedrich (TU Braunschweig, Germany), Jörg P. Müller (TU Clausthal, Germany), Fidler Markus (Leibniz Universität Hannover, Germany)

### 2nd Special Session on Human Factors in Intelligent Transportation Systems (HFITS)
Cristina Olaverri Monreal (UAS Technikum Wien, Austria), Fernando Garcia (University Carlos III, Spain)

Throughout the days of the conference, all sessions were quite participated, with active discussions among attendees.

**Opening Ceremony**
After the workshops and tutorials/short courses day, the technical program of the main tracks and special sessions of IEEE ITSC 2016 started with the Opening Ceremony. Prof. Rosaldo Rossetti, as the General Chair of ITSC 2016, chaired
the opening session. In the panel also were Prof. J. Roberto de Marca (former IEEE President), Mr. Alberto Nygard (Coordinator of Rio Municipality’s Department of Transportation), Prof. Daniel Zeng (President of IEEE ITS Society), and Prof. Denis Wolf (Program Chair).

Social Activities
One important characteristic of IEEE ITSC 2016 was that every events and activities happened in the same venue. The Convention Center of Windsor Oceanico Hotel offered the appropriate infrastructure that allowed us to run all activities, from technical sessions and social events at the same place. This contributed enormously to the integration of all participants that were able to meet outside technical sessions for coffee breaks and lunches. The Welcome Reception and Gala Dinner also were hosted at the same place.

Welcome Reception
After a long day of workshops and tutorials/short courses, all participants gathered in the evening of the first day of ITSC 2016 to enjoy some typical Brazilian drinks and food. It was a very relaxing moment!
Welcome Reception gathered all participants in the evening of the first day of ITSC 2016.

**Coffee Breaks and Lunches**

During the whole conference, participants enjoyed coffee breaks and lunches together, taking the moment outside technical sessions to relax and socialize. All coffee breaks were at the foyer connecting all session rooms whereas lunches took place a few meters away, in room Americas II.

Coffee breaks were a relaxing time between sessions.

Lunches were a great time for socialization and networking.
Gala Dinner

The Gala Dinner of IEEE ITSC 2016 took place at the Convention Center, Windsor Oceanico Hotel, the same place as the conference. Besides members of the IEEE ITS Society, Prof. Barry L. Shoop, the IEEE President, joined us for the Gala Dinner at IEEE ITSC 2016.

Gala Dinner took place in room Americas II.

Members of IEEE ITS Society and Prof. Barry L. Shoop, IEEE President, joined the event.

Awards Ceremony

The Gala Dinner of IEEE ITSC 2016 was preceded by the Awards Ceremony. The awards of the IEEE ITS Society were presented by Prof. Daniel Zeng, the Society’s president. Besides the IEEE ITS Society’s awards, traditionally presented at ITSCs, we were pleased to host the IEEE Transportation Technologies Award, given by IEEE and presented by its President and CEO, Professor Barry Shoop, during the event.

Professor Petros Ioannou was the recipient of the IEEE Transportation Technologies Award, presented by Professor Shoop, the IEEE President.

Professor Matthew Barth was the recipient of the Society’s IEEE ITS Outstanding Research Award. Unfortunately, Prof. Barth wasn’t able to attend the event.
Professor Christoph Stiller was the recipient of the Society’s IEEE ITS Outstanding Application Award, presented by Profs. Daniel Zeng and Yaobin Chen.

Professor Ernst Dickmanns was the recipient of the ITSS Lifetime Achievement Award, presented by Professor Joe Wuensch.

The IEEE ITS Best Dissertation Award is given annually for the best dissertation in any ITS area that is innovative and relevant to practice. The award was presented by Profs. Miguel Ángel Sotelo and Cristina Olaverri.

Dr. Mohammad Shokrolah Shirazi was awarded the second prize, with the thesis entitled “Vision-Based Intersection Monitoring: Behavior Analysis & Safety Issues” (didn’t attend the event).

Dr. Matthias Schreier was awarded the second prize, with the thesis entitled “Bayesian Environment Representation, Prediction, and Criticality Assessment for Driver Assistance Systems”.

Dr. José Ramón D. Frejo was awarded the first prize, with the thesis entitled “Model Predictive Control for Freeway Traffic Networks”.
IEEE ITSC 2016 also recognized the best papers of the conference, with the Best Paper award. Selecting the awardees from among high-quality submissions were a hard task. The Conference awarded three papers with the Best Paper prize, which were presented by Prof. Denis Wolf and Rosaldo Rossetti.

In 3rd place was the paper entitled “Clustering for set partitioning with a case study in ridesharing,” by Cathy Wu, Ece Kamar, Eric Horvitz

In 2nd place was the paper entitled “Compressing Continuous Point Cloud Data Using Image Compression Methods,” by Chenxi Tu, Eijiro Takeuchi, Chiyomi Miyajima, and Kazuya Takeda

In 1st place was the paper entitled “Stable Hybrid Model Predictive Control for Ramp Metering,” by Sarah Koehler, Negar Mehr, Roberto Horowitz, and Francesco Borrelli

The Awards ceremony concluded with the presentation of the 20th edition of IEEE ITSC, to be held in Yokohama, Japan, on 16 – 19 October, 2017.
**Awards Session**

On the last day of the Conference the awardees presented highlights of their achievements in a plenary session, chaired by Prof. Yaobin Chen.

Prof. Yaobin Chen, Petros Ioannou, and Ernst Dickmanns, and Drs. Matthias Schreier and José Ramón D. Frejo, after the Awards Plenary Session

**Technical Visits**

Prior to the start of the Conference, on 31st October, we organized two pre-conference technical visits for the IEEE ITSC 2016 participants, one to the Rio Operations Center (COR), the modern Advanced Traffic Management and Control Center of Rio de Janeiro, operating since 2010, and another to the Metro Operational Control Centre (CCO), responsible for monitoring and controlling 64 trains distributed between Lines 1 and 2 and transporting around 800 thousand passengers per day, in the City of Rio.

**WIE Scholarships**

In the spirit of the “Women in Engineering” initiative, Prof. Cristina Olaverri launched the “Women in Intelligent Transportation Systems” scholarships program to foster the ITS field among female students to equalize the gender diversity in workplaces, and at the IEEE ITS Society’s events. In order to honor the women fellows working in ITS who were attending IEEE ITSC 2016, a number of free registrations were distributed among women participants. A total of then scholarships were distributed among a very high number of applications.
Students Activities

On Monday, October 31st, ITSC 2016 offered a pre-conference social activity for the students participating attending the event in Rio. We are proud to have organised a special bodyboard lesson, with a very prominent instructor in Rio de Janeiro! Bodyboard is an exciting water sport, very appreciated by locals due to the perfect water conditions and good waves of Rio’s beaches. Students enjoyed a great time, learning and practicing the basics of bodyboarding on Barra da Tijuca beach. Different techniques of how to ride waves, how to position oneself on the board and many other tricks were taught to attendees that had a great fun along with Thiago Rúbio, the ITSC 2016 Students Activities Chair.

Students attending the bodyboard lessons on Barra da Tijuca Beach.

Acknowledgment

It was with great pleasure and excitement that we welcomed all ITS community to Rio and to IEEE ITSC 2016! In its 19th edition and having travelled many countries already, we were highly honored to lead the organization of the prestigious flagship conference of the IEEE Intelligent Transportation Systems Society, held for the first time in the Southern Hemisphere, more specifically in Brazil. What a great historical moment to our community, and we are very proud to be part of it!

Organizing an important and prestigious event such as IEEE ITSC is only possible with the hard work and dedication of a team of volunteers. We’d like to leave a word of great appreciation to our Program Co-chairs, to all members of our Organizing Committee, to the International Program Committee, and to all reviewers, who dedicated a great effort to make ITSC 2016 a reality! In particular, we’d like to acknowledge and thank the contributions of NuIEEE, the IEEE Student Branch at Universidade do Porto, in a number of tasks during the organization of this Conference. The institutional support from IEEE ITS Society, as well as from FEUP, LIACC, and ICMC-USP, as organizing institutions was ultimately important and greatly appreciated throughout the whole process. Also, other partners have joined our efforts on the way, whose support we also acknowledge with gratitude, namely IPT, FAFQ, IEEE PES, UVA, APBS, and Fuseami, who provided us with the mobile app during the conference.

In recognition of their very close support and untiring assistance during the organization of the Conference, we’d like to give special thanks to Valdir Grassi Jr, Deborah Perrotta, Brendan Morris, Cristina Olaverri, João Pedro Dias, and Gil Domingues. We’re also greatly indebted to the students that helped at the Reception Desk throughout the whole duration of the Conference (Our crew in blue!), namely Fernanda, José Netto, Tatiane, Julia, Samuel, and “Viçosa.” These guys are awesome!

Finally, and more importantly, IEEE ITSC 2016 wouldn’t be possible without the interest of our community, whose authors contributed with great enthusiasm with special
session, workshop and tutorial proposals, as well as with the submission of high-quality manuscripts, sharing their most recent findings and research results. To all proposers and authors, a great thank you!

Rosaldo Rossetti and Denis Wolf
ITS Podcast New Episodes and Information

Please, circulate this!

**ITS Podcast Episode 39**: Computer Vision, Inside-Out Perception

In this episode apart from the News mini-section we will have Prof. Haluk Eren from Firat University in Turkey that has prepared a review of a book recently published by Springer, “The Advent of Unmanned Electric Vehicles: The Choices between E-mobility and Immobility” written by Van Temsche.

It is March and to celebrate the role of our women in this field of engineering Prof Jeffrey Miller from USC has conducted an interview with one of our prominent researchers Dr. Anya Petrovskaya.

Her research interest is in areas of Computer Vision, Artificial Intelligence, and Robotics. She mainly focuses on Bayesian methods for Artificial Perception in robotics and consumer applications. She has developed new efficient algorithms for autonomous vehicles, mobile manipulation, and tactile object localization.

Dr. Petrovskaya is an entrepreneur as well. She is the co-founder of “Eonite Perception”.

We hope you enjoy our Podcast.

**Volunteer Recruiting Campaign:**

Dear Listeners, either you are a researcher in Intelligent transportation field or are just interested, don’t hesitate to contact us, we are recruiting volunteers and your help will be highly appreciated.
Contact us on our email at: itsspodcast@gmail.com.
Announcement 2017 Summer School on “Cooperative Interacting Automobiles“

August 8-11, 2017 in Schwäbisch Gmünd, Germany

The Summer School on "Cooperative Interacting Automobiles" aims at gathering Ph.D. students and Young Professionals from Universities and Research Institutions for tutorials, keynote presentations and interactive workshop sessions on
+ Cooperative Perception
+ Cooperative Motion Planning
+ Implicit & Explicit Interaction

It is jointly organized by Karlsruhe Institute of Technology (KIT, Germany) and MINES ParisTech (France). We gratefully acknowledge support from the Priority Programme "Cooperative Interacting Automobiles" of the German Science Foundation (DFG), the IEEE Intelligent Transportation Systems Society and the International Research Chair Drive for All (MINES ParisTech).

Applications are now open until May 15, 2017.

For more information please visit:
http://www.mrt.kit.edu/spp1835/SummerSchool2017

We are looking forward to a fruitful and inspiring event.

Christoph Stiller and Arnaud de La Fortelle

Organizers & Sponsors

[DFG Logo]
[IEEE Logo]
[KIT Logo]
[MINES ParisTech Logo]
A Summer School on the Intelligent Vehicles subject will be held in Compiègne, France, next July, from 2nd to 7th, 2017. PhD students are mainly concerned but researchers and engineers in the ITS domain are also welcome.

This week summer school, realized on the context of the Interdisciplinary Training Network in Multi-Actuated Ground Vehicles (ITEAM) - a Marie-Curie European project (https://iteam-project.net/), has the objective to study in a common forum the Automation problem related to modelling, estimation and control of vehicle dynamics to the Robotics problem related to onboarded perception and navigation of robotic vehicles.

Starting by reinforcing the knowledge of the Vehicle Dynamics, where the problem associated to the estimation of unmeasured variables/parameters is considered at the context of state observer techniques, it goes ahead by revisiting and understanding new methods and new trends on vehicle dynamics control and stabilization.

Having established the background of vehicle dynamics modelling and control, the second part is devoted to the autonomous navigation: perception, decision and control. After introducing main issues about environment perception, the bases and latest developments on vehicle autonomous navigation are stated, and considered on the sensor based navigation framework.

In this context, the lectures will take in a common training framework: (i) Vehicle dynamics control and stabilization - a low-level layer near to the actuators; (ii) Robotic perception and vehicle navigation - a high-level layer near to the decisional navigation frame.

For more details and registration, please access:
http://intelligent-vehicles-summer-school.webnode.fr/
Call for Expression of Interests in becoming an Associate Editor of ITS Magazine

ITS Magazine is considering engaging additional associate editors.

Details of the Magazine’s current scope can be obtained from http://www.ieee-itss.org/its-magazine.

Could you please contact the Magazine’s EiC, Ljubo Vlacic, via l.vlacic@griffith.edu.au should you be interested in committing to the role.

Please submit your short work profile and list of topics of your interest.

Expertise in one of the following areas is highly desired:
  • datamining;
  • big data analysis (real-time), modelling & visualisation;
  • deep learning and other machine learning concepts;
  • integration of multi-modal transportation systems

The final decision will be made by the ITSS ExCom/BoG. The submission deadline is 30 August 2017.
ITS Magazine: Call for Special Issue Proposals

ITS Magazine is seeking special issue proposals on a variety of topics of interest to ITSS.

A focus on field trials, underpinning policies & regulations, capability building and trustworthiness of ITS solutions (in terms of safety, liability, privacy, security, etc) is of particular interest. Details of the Magazine’s current scope can be obtained from http://www.ieee-itss.org/its-magazine.

Could you please contact the Magazine’s EiC, Ljubo Vlacic, via l.vlacic@griffith.edu.au should you be interested in making a submission.

Two-page submissions should address:
- Guest editors and their expertise
- Aim & Scope of the Special Issue
- Tentative timeline
- Anticipated contributors, if any, and likely topics of their submissions.

It would be appreciated if proposals can be submitted before 30 September 2017.
The IEEE Intelligent Vehicle Symposium (IV) is one of the major annual conferences of the IEEE Intelligent Transportation Systems Society. IV 2017 will be held in Redondo Beach, California, USA at the Crown Plaza Hotel right across the street from the Redondo Beach Marina and Pier with the blue Pacific Ocean a block away. In this beautiful setting, IV 2017 welcomes articles in the field of Intelligent Vehicles dealing with new developments in theory and applications, vehicle technologies and demonstrations. It also welcomes proposals for workshops and tutorial sessions to be offered the day before the symposium starts namely June 11, 2017. The traditional format of IV which makes it unique involves a single oral paper presentation session with subsequent parallel poster sessions where each poster paper is orally presented in a brief single slide in order to attract attention and motivate informal discussions. All accepted papers will be included in the proceedings. The technical areas include but are not limited to the following:

- Connected and probe Vehicles
- Automated Vehicles with and without pilot/driver
- Partial Vehicle Automation
- Vehicle-to-Vehicle and Vehicle-to-Infrastructure communications
- Driver monitoring
- Driver Human factors and Personalization
- Electric Vehicles
- Hybrid Vehicles
- Vehicle dynamics and control
- Lane change and merging
- Commercial Vehicles
- Vehicle Emissions and environmental impacts
- Sensing, detection, and actuation
- Advanced vehicle safety systems
- Driver and traveler support systems
- Vision and environment perception
- Vehicle localization and autonomous navigation
- Cognition and Control
- Legal Issues

In the tradition of successful IEEE ITS Conferences, only the highest quality papers will be accepted through an on-line peer review process. The final version of the accepted papers will be included in the Conference proceedings only after at least one author officially registers and presents the paper at the Conference.

**Important Dates**

- Full-paper submission deadline: January 31st, 2017
  **NOTE: No extensions will be granted.**
- Workshop/Tutorial deadline: January 6, 2017  No extension will be granted
- Notification of acceptance: March 31st, 2017
- Final paper submission deadline: April 5, 2017

**Special Issue of IEEE Transactions on Intelligent Vehicles**

High quality papers will be recommended for consideration in the new *IEEE Transactions on Intelligent Vehicles*. Authors will be asked to revise their papers according to the standards of the Transactions, which will be subjected to the Transactions’ review process.
**Call for Papers**

**IMPOTANT DATES**

Regular paper

- **Full-paper submission:** March 15, 2017 → April 21, 2017
  (Final extension)
- **Notification of acceptance:** June 1, 2017 → June 20, 2017
- **Camera-ready submission:** July 1, 2017 → July 20, 2017

Workshop

- **Proposal submission:** April 15, 2017 → April 21, 2017
- **Paper submission:** June 30, 2017

**ORGANIZING COMMITTEE**

- **General Chair:** Makoto Itami, Tokyo Univ. of Science
- **General Co-Chairs:**
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  - Koji Oguri, Aichi Pre. Univ.
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  - Yanlei Gu, The Univ. of Tokyo

**WEB:** [http://www.itsc2017.org](http://www.itsc2017.org)

**Mail:** itsc2017@ieee.org

**SCOPE**

The Intelligent Transportation Systems Conference is the annual flagship conference of the IEEE Intelligent Transportation Systems Society. This conference welcomes articles in the field of Intelligent Transportation Systems, dealing with new developments in theory, analytical and numerical simulation and modeling, experimentation, demonstration, advanced deployment and case studies, results of laboratory or field operational tests. ITSC 2017 especially invites and encourages prospective authors to share their work, findings, perspectives and developments, to mark 20 years of IEEE Intelligent Transportation Systems Conference.

**TOPICS**

Original contributions are solicited in all areas pertinent to Intelligent Transportation Systems. Topics include, but are not limited to:

- Autonomous Driving
- Connected Car
- Big Data and Data Driven Innovation
- Probe Information Systems
- Cooperative Techniques and Systems
- Pedestrian Recognition
- Vehicle Localization
- Transportation Networks
- Intelligent Logistics
- Intermodal Freight
- Advanced Public Transportation Management
- Ports, Waterways, Inland Navigation, and Vessel Traffic Management
- Modeling, Simulation, and Detection of Vulnerable Road Users and Animals
- ITS User Services
- Air, Road, and Rail Traffic Management
- Emergency Management
- Emissions, Noise, Environment
- Management of Exceptional Events: Incidents and Evacuation
- Commercial Vehicle Operations
- Sensing, Detectors and Actuators
- Communications in ITS
- Intelligent Vehicles
- Vision, and Environment Perception
- Electric Vehicles
- Electronic Payment Systems
- Modeling, Control and Simulation
- Traffic Theory for ITS
- Human Factors, Travel Behavior
- ITS Field Tests and Implementation
- Driver and Traveler Support Systems
- Pedestrian Navigation

**PAPER SUBMISSION**

Prospective authors are required to submit their manuscripts electrically through EDAS ([https://www.edas.info/](https://www.edas.info/)). Submitted papers shall not exceed six pages as a pdf file in IEEE two column format. All presented papers will be published by the IEEE and included in IEEExplor. See more detailed information at the conference website to prepare your paper.

**Technical Sponsored by:**
- IEEE ITS Society, IEEE ITS Society Tokyo chapter
- IEEE ITS Society Nagoya chapter

**In Cooperation with:**
- IEICE Technical Committee on ITS
- IEEJ-IAS ITS Technical Committee, IPSJ SIG-ITS
- International Association of Traffic and Safety Sciences
- ITS Japan
The 2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES’17) is an annual forum sponsored by the IEEE Intelligent Transport Systems (ITS) Society. It brings together researchers and practitioners to discuss research and applications. ICVES’17 solicits papers dealing with any aspects of vehicle electronics and vehicle safety.

Organizing Committee:

- **General Chair** Cristina Olaverri-Monreal, UAS Technikum Wien, Austria
- **Program Chair** Javier J. Sanchez-Medina, ULPGC, Spain
- **Senior Advisory Committee** Matthew Barth, Mohan Trivedi, Christoph Stiller
- **Registrations Chair** Fernando Garcia, University Carlos III, Madrid, Spain
- **Publications Chair** David Martín Gomez, University Carlos III, Madrid, Spain

Topics The technical areas include but are not limited to the following:

- Intelligent Vehicles
- Dynamic Programming
- Global Positioning Systems
- Trajectory Planning
- Vehicle Dynamics
- Active and Passive Safety Systems
- Telematics
- Vehicular Power Networks
- X-By Wire Technology
- System-On-a-Chip
- Vehicular Sensor
- Vehicle Bus Systems
- On-Vehicle Sensor Networks
- Electro Magnetic Compatibility
- Inter-Vehicular Communication
- Vehicle Testing
- Navigation and Localization Systems
- Vehicular Measurement Technology
- Vehicular Signal Processing
- Micro-electromechanical Systems
- Computer Vision
- Vehicle/Engine Control
- Driver Assistance and Warning Systems
- Adaptive Cruise Control Systems
- Pattern Recognition for Vehicles
- Energy Consumption
- Embedded Operation Systems

Paper Submission Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard format. Detailed submission instructions can be found through the conference website. Papers accepted for the technical program of the conference will be included in the conference proceedings to be published and indexed by IEEE in its IEEE Xplore Digital Library.

Important Dates:
- Full paper submission date: February 15, 2017
- Notification of acceptance: April 15, 2017
- Camera ready paper submission date: May 1, 2017

Please visit the conference website at http://www.ieee-icves2017.org and follow us in Twitter: @ieee_icves2017

Further info and questions at ieee.icves2017@gmail.com
VEHITS 2017

3rd International Conference on Vehicle Technology and Intelligent Transport Systems

PORTO, PORTUGAL • 22 - 24 APRIL, 2017

Vehicle Environment Perception
Intelligent Infrastructure and Guidance Systems
Big Data Analytics for Intelligent Transportation
Mobility and the Internet of Vehicles
Security and Safety
V2V, V2I, V2X

Communication Protocols
Systems Modeling and Simulation
Traffic Theory, Modeling, and Simulation
Vehicular Cloud Computing
Big Data and Vehicle Analytics
Vehicular Networks

Green, Sustainable Transportation

CONFERENCE AREAS

Intelligent Vehicle Technologies
Intelligent Transport Systems and Infrastructure
Connected Vehicles
Sustainable Transport

REGULAR PAPER SUBMISSION: NOVEMBER 23, 2016

MORE INFORMATION AT: WWW.VEHITS.ORG
6th IEEE International Conference on Advanced Logistics and Transport (IEEE ICALT 2017) Call for Papers

The International Conference on Advanced Logistics and Transport (IEEE ICALT’2017) will be held on 24-27 July 2017, in Bali, Indonesia. IEEE ICALT’2017 aims at bringing together researchers and practitioners working in industry and academia and to provide them with a platform to report on the latest developments, achievements, deployments, technology trends, and research findings as well as initiatives related to Logistics & Transport and their applications.

Interested authors are requested to submit the electronic version of their paper(s) in PDF format, in English, via the online submission system. The first page must contain the Title, the Author(s), the Affiliations, an Abstract (200-250 words), and the postal address and email of the corresponding author.

IEEE ICALT’2017 includes the following Symposiums:
- Symposium on Logistics & Supply Chain Management (LSCM)
- Symposium on Intelligent Transportation Systems (ITS)
- Symposium on Optimization and Logistics Challenges (OLC)
- Symposium on Logistics Systems and Services (LSS)
- Symposium on Industrial Engineering (IE)

After the Conference, a selected number of Best Papers will be expanded and revised for possible inclusion in the Special Issues of well-known and indexed journals.

Important Conference Information:
- The working language of the Conference is English and all printed material, presentations, and discussions will be in English.
- The material submitted to IEEE ICALT’2017 must be original, previously unpublished, and not considered for publication elsewhere. Authors may submit their work to a Symposium, a Special Session, or a Workshop.
- All papers will be blindly peer-reviewed by three reviewers. Abstracts or incomplete papers will not be reviewed.
- Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases (under approval).
- Interested authors are requested to submit the electronic version of their paper(s) in PDF format, via the online submission system.

Important Dates
- Paper Submission deadline: 01 April 2017
- Paper Acceptance Notification date: 25 April 2017
- Final Paper Submission & Registration deadline: 15 May 2017
- Early Payment: 15 May 2017
4th International Conference on Transportation Information and Safety (ICTIS 2017)
August 8th ~ 10th, 2017,
Banff, Alberta, Canada

Conference Spotlight Theme: **Transportation Information and Safety in the Intelligent and Connected Environments**

**CALL FOR PAPERS**

The 4th International Conference on Transportation Information and Safety (ICTIS 2017), sponsored by China Communications and Transportation Association (CCTA), American Society of Civil Engineers (ASCE) and Canadian Society for Civil Engineering (CSCE), organized by Wuhan University of Technology, will be held during August 8-10, 2017, at the Banff Center, in Banff, Alberta, Canada.

We would like to invite you to submit contributing papers to The ICTIS2017. The accepted papers will be published by the Institute of Electrical and Electronics Engineers (IEEE) and will be indexed by Engineering Index (EI) citation. In addition, selected papers based on the fit to the theme will also be recommended for publish on a Special Issue of Transportation Research Part F: Traffic Psychology & Behaviour ([http://www.journals.elsevier.com/transportation-research-part-f-traffic-psychology-and-behaviour/call-for-papers/special-issue-on-driving-behavior-in-its](http://www.journals.elsevier.com/transportation-research-part-f-traffic-psychology-and-behaviour/call-for-papers/special-issue-on-driving-behavior-in-its)), Journal of Risk and Reliability and other SCI or SSCI Journals.

For more details about this conference, please visit the ICTIS 2017 website at [http://ictis.whut.edu.cn](http://ictis.whut.edu.cn). Please contact ICTIS2017 secretary by Email: ictis@whut.edu.cn if you have any suggestions or questions.

**CONFERENCE TOPICS**

With the rapid development of Intelligent and Connected Vehicles, Intelligent Data Mining, Intelligent Traffic Information Awareness and Vehicle to Vehicle or Vehicle to Infrastructure Communication Technology, there is both challenges and opportunities for currently transportation systems in Intelligent and Connected Environments. How to improve the safety of transportation system with information technologies has become a popular research topic in the field of transportation and the theme of this conference. ICTIS 2017 will facilitate in-depth discussions about infrastructure, data collection, processing and applications of these technologies and at the same time, promote exchanges in traffic safety theory, analyzing methods and risk preventive measures in Intelligent and Connected Environments.
Topics include (but not limited to) the following:

- Connected Vehicle Technology
- Intelligent Transportation Systems (ITS)
- Driving Behavior in ITS
- Transportation Systems Detection Technology
- Transportation Information Acquisition Methods
- Transportation Information Processing Theories and Methods
- Information Publishing Methods and Applications
- Traveler Information, In-Vehicle Information Systems
- Traffic Control Theories and Methods
- Transportation System Optimization Models
- Geographic Information Systems for Transportation
- Others related topics
- Transportation Safety Models and Evaluation Methods
- Transportation Safety Data Analysis Methods
- Travel Behaviors and Safety
- Traffic Engineering Innovations including Road Design and Behavioral Issues
- Transportation Safety
- Urban Traffic Safety and Slow Traffic
- Shipping Safety Theory and Technology
- Shipping and Ocean Environment Engineering and Safety
- Railway Safety Theory and Technology
- Safety Considerations in Railway Operation Management
- Aviation Safety Theory and Technology
- Safety Considerations in Aviation Operation Management

PAPER SUBMISSION AND REVIEW

The working language of the conference is English. Authors are invited to submit abstracts and full papers in English. Submitted abstracts should not exceed 300 words. The length of paper is 6-8 pages, and must be written strictly in accordance with the format of IEEE (The template can be downloaded from http://www.ieee.org/publications_standards/publications/conferences/2014_04_msw_a4_format.doc). Abstracts should include the paper title, name(s) of the author(s), affiliations and contact information. For papers with multiple authors, please provide information for all co-authors, including name, affiliation and contact information (address, phone number, email and fax) of the corresponding author. The authors must ensure the submitted abstracts and papers are original and unpublished. Plagiarisms and intellectual property disputes will not be tolerated in ICTIS 2017. Submitted abstracts and full papers will be reviewed by experts in the relevant fields.

IMPORTANT DATES

- Deadline for Submission of Abstracts: September 1, 2016
- Notification of Accepted Abstracts: October 15, 2016
- Deadline for Submission of Full Papers: January 15, 2017
- Notification of Accepted Full Papers: March 15, 2017
- Deadline for Submission of the Revised Version: April 30, 2017
- Conference: August 8-10, 2017

CONTACT INFORMATION

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E-mail: ictis@whut.edu.cn
Website: http://ictis.whut.edu.cn
Call-for-papers of a special session of ICTIS 2017

Emerging Technologies for Maritime Risk Assessment: Opportunities, Challenges and Developments
by D. Zhang¹, ² and J. Wang³

1. Intelligent Transportation Systems Research Center, Wuhan University of Technology, China
2. National Engineering Research Center for Water Transport Safety, China
3. Liverpool LOgistics, Offshore and Marine (LOOM) Research Institute, Liverpool John Moores University, UK

Compared to land transportation, maritime transportation has many advantages such as lower carbon emissions, lower costs and lower likelihood of congestion. Naturally, there is also a series of accidents of a different nature and different consequences that are associated with the maritime transport activity. According to the international union of marine insurance, more than 40% of ship losses happen in bad weather conditions, although fire and explosion and machinery damage are also important contributors. One of the most shocking maritime accidents is the capsize of the Eastern Star in the Yangtze River on the 1st June 2015 due to the stormy weather, leading to 442 fatalities.

It is therefore necessary to develop novel techniques of maritime risk assessment aimed at accident prevention (e-Navigation developments, traffic management practices), and measures for consequence mitigation (improved decision support systems for evacuation and flooding, ship designs and equipment).

Emerging technologies, such as big data, high-performance computing, artificial intelligence, and resilience engineering, have a profound impact to the way of conducting maritime risk assessment. They enable us to understand, estimate and mitigate risks in a much more informed way. Maritime risk modeling is about understanding how maritime systems interact with risk influencing factors. In this regard, emerging technologies appear to offer so much to increase the “fidelity” of such models and their capacity to better estimate maritime risks and their impacts. Therefore, this special issue will focus on the discussions regarding the opportunities, challenges and initiatives of using the above emerging technologies for a “high-fidelity” integrated maritime risk modeling process. Topics of interest include, but are not limited to:

- Opportunities for enhancing the fidelity of maritime risk modules (e.g., collision, grounding and fire/explosions).
- Ship safety in harsh environment (e.g., stormy seas, ice waters and complex traffic fairways).
- Challenges of using a particular emerging technology in maritime risk assessment.
- Initiatives of using emerging technologies for an improved maritime risk modeling process.
- Assessment of improved maritime risk modeling accuracy from emerging technologies.
- Resilience engineering-based risk assessment for ships in operation.
Driving Behavior in Intelligent Transportation Systems

by Chaozhong WU\textsuperscript{1,2} and Türker ÖZKAN\textsuperscript{3}

\begin{itemize}
  \item 1. Intelligent Transportation Systems Research Center, Wuhan University of Technology, Wuhan, China
  \item 2. National Engineering Research Center for Water Transport Safety, China
  \item 3. Department of Psychology, Middle East Technical University, Ankara, Turkey
\end{itemize}

With the rapid development of Intelligent Transport Systems (ITS), the emerging technologies such as Advanced Vehicle Driving Assist Systems, Connected Vehicles, Intelligent Vehicles and etc. introduces new opportunities and challenges into our daily traffic systems and raises questions regarding the interactions of driver’s cognitive and driving behaviors with these technologies. Meanwhile, the development in these technologies makes innovative vehicle data collection, Vehicle to Vehicle communication, Vehicle to Infrastructure communication possible. As a sequence, more driving information will be provided to the drivers. How the drivers will better understand the safety benefit of these new technologies and will make response to this new information for vehicle operation attracted more and more attention. These are of great opportunities and challenges for the driving behavior and traffic psychology study. Therefore, the 4\textsuperscript{th} International Conference on Transportation and Safety has interest to organize a special session to focus on Driving Behavior in Intelligent Transportation Systems.

The purpose of this Special Session is to provide a collage of high-quality papers presenting interesting aspects of driving behavior in Intelligent Vehicles, Connected Vehicles or other intelligent transport systems. Papers suitable for this session should focus on topics, include but are not limited to:

\begin{itemize}
  \item Risk Awareness within the Advanced Vehicle Driving Assist Systems or Intelligent Vehicles
  \item Driver’s Cognitive to the Innovated Information within the Intelligent Transport Systems
  \item Safety Benefit for the advancement of Vehicle Technologies
  \item Drivers’ Attitude and Behavior towards Intelligent Vehicles
  \item Driving Behavior Study within the Big Data Environments
  \item Human-Machine Interface in Intelligent Transport Systems
  \item Driver Adaptation and Regulation in Emerging Technologies and/or ITS
\end{itemize}
SOLI 2017 Call for Papers

2017 IEEE International Conference on Service Operations and Logistics, and Informatics
September 18-20, 2017, Bari, Italy

Sponsor: IEEE Intelligent Transportation System Society

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General Co-Chairs
Meng Lu, Dynniq, The Netherlands

Program Co-Chair (Service Operations and Logistics)
Mauro Dell’Amico, Univ. of Reggio Emilia, Italy

Program Co-Chair (Automation)
Weiming Shen, National Research Council Canada, Canada

Special Sessions Chairs
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Publication Chair
Agostino M. Mangini, Pol. of Bari, Italy

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Walter Ukovich, Univ. of Trieste, Italy

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Giorgio Jacobellis, Pol. of Bari, Italy
Giovanni Pedroncelli, Pol. of Bari, Italy

Local Committee
Lorenzo Abbatecola
Paolo Lino
Guido Maione
Michele Roccotelli
Giuliana Rotunno

IMPORTANT DATES
Special session proposals deadline: December 15, 2016
Paper submission deadline: January 15, 2017
Notification of acceptance: April 30, 2017
Camera-ready copy due: June 30, 2017

SOLI 2017 is strongly supported by the TC on Automation in logistics of the IEEE RAS
the TC on Discrete Event Systems of the IEEE SMCS

Conference Theme: Optimization and Control Approaches in Transportation and Logistic Systems

The 2017 IEEE International Conference on Service Operations and Logistics, and Informatics will be held on September 18-20, 2017, in Bari, Italy. This conference will provide a remarkable opportunity for the academic and industrial communities in the areas of Service Operations, Logistics, and Informatics, to address new challenges and share solutions, and discuss future research directions. The specific objectives of the modern Logistics and Transportation Challenges are ‘smart, green and integrated services’ to achieve planning, scheduling and transport systems that are resource-efficient, climate- and environmentally-friendly, safe and seamless for the benefit of citizens, economy and society. Moreover, the increasing complexity of logistic systems, modelled as systems of systems, and the rapid advancements of Information and Communication Technologies require the development of innovative models, control and optimization approaches and lead to the definition of novel problems with respect to the related literature.

Technical topics of the conference include but are not limited to:

- Performance evaluation of new hardware and software technologies to support smart logistics systems.
- Planning, scheduling and coordination problems arising from the implementation of new hardware, software or data architectures.
- Impact of novel automation, information and data architectures on the design of logistics systems and supply chains.
- Innovative interfacing of hardware, software and data resources to support smart logistics.
- Intelligent transportation and distribution systems: theory and application.
- Management information systems in logistics.
- System-level approaches to cooperative logistics.
- Automatic and intelligent control applications in logistics systems at the factory, warehouse, transportation or supply chain levels.
- Normative, legal, security and privacy issues in logistics and their impact on logistics system design and control.
- Intra-factory logistics and material handling for manufacturing and production systems
- Supply chains
- Warehouses, distribution centres, and transport terminals
- Freight transportation systems (seaports, railroads, trucking systems, package express)
- Smart logistics for smart cities
- Logistics for Healthcare Systems (biomaterials, pharmaceuticals)
- Automated and Internet-based Workflow Management Systems

PAPER SUBMISSION

Complete manuscripts must be electronically submitted through the conference website http://dei.poliba.it/soli2017
Submitted manuscripts should be within six (6) pages in IEEE two-column format, including figures, tables, and references. Please use the templates at Manuscript Templates for IEEE Conference Proceedings from the conference website to prepare your paper.
FAST-zero ’17

4th International Symposium on Future Active Safety Technology

Toward zero traffic accidents

Introduction
FAST-zero’17 will be held in Nara, a historical place and ancient capital of Japan after the successful 3rd symposium in Gothenburg, Sweden. Following the tradition of FAST-zero symposia, we will bring together researchers and engineers from industry and academia to present the current state-of-the-art and progress in research and development of active safety technologies.

Innovation in the field of active safety is the key driving force towards the ultimate goal of realizing zero traffic accidents. Researchers around the world have been investigating methods for active safety to reduce and possibly eliminate the number of traffic accidents as well as road fatalities. Especially, automated and connected vehicles have the potential to enhance safety through new sensors, dynamic map, artificial intelligence and other technologies that have experienced a great improvement in the last years. The organizers are looking forward to your contribution and to seeing you at FAST-zero’17.

Organized by
FAST-zero’17 Organizing Committee of the Society of the Automotive Engineers of Japan, Inc. (JSAE)

In Association with
- International Federation of Automotive Engineering Societies (FISITA)
- International Association of Traffic and Safety Sciences (IATSS)
- International Federation of Automatic Control, Technical Committee on Automotive Control (IFAC)
- IEEE-Intelligent Transportation Systems Society (ITSS)
- ITS-Japan
- Japan Society of Mechanical Engineers (JSME)
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- Society of Instrument and Control Engineers (SICE)

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Authors intending to present a paper at the FAST-zero ’17 symposium are invited to submit an extended abstract in English, with a length of approximately 1000 words. The extended abstract should clearly reflect the contents of the paper, and should not exceed 2 pages of A4 size (including figures).

The extended abstract must be accompanied by the following information:
1. Title of paper
2. Name of author(s)
3. Affiliation(s)
4. Symposium Topics (up to 3 - see list of topics)
5. Abstract (approx. 1000 words, including figures)
6. Corresponding Author
   Name, Affiliation, Complete mailing address,
   E-mail address, Telephone number / Fax number

For authors who wish to publish their research works in international journals, we recommend the authors submit the revised manuscripts to “International Journal of Automotive Engineering (IJAE)” published by JSAE. The peer review process will proceed after the symposium.

Important Dates
Deadline for abstracts: November 25, 2016
Notification of acceptance: February 28, 2017
Deadline for full papers: May 19, 2017
Deadline for author registration: May 19, 2017
Symposium Topics
FAST-zero’17 topics will cover the wide range of active safety technology topics including but not limited to:
- On-Board Sensing Active Safety System
  Autonomous Driving Technology & Driver Assistance Systems
  Vehicle Dynamics Control
  Vehicular Sensors and Environment Perception
- Communication-Based Active Safety System
  Connected Vehicles & Cooperative Driver Assistance System
  ITS and ICT for Safety Applications
- Driver Characteristics and Human Factor
  Driver Monitoring
  Driver Behavior Modeling
  Driver Assessment and Training
  Cooperation between Driver and Assistance Systems
  Human Machine Interface
- Active Safety Testing Method and Assessment
  Safety Impact Assessment of Active Safety Devices
  Driving Simulator
  Modeling and Simulation
  Field Operational Test
- Other Related Topics on Active Safety

Official Language for Papers & Presentations
The official language of the symposium for both paper and presentation is English. Oral presentation will be made in parallel sessions during the symposium. Presentation will be limited to 25 minutes, including a 10-minute question-and-answer session. All contributed papers will be published in the FAST-zero ’17 proceedings.

Paper Submission
Prospective authors are requested to submit an extended abstract in English, describing the problem definition, method and results expected or obtained. This should include figures and tables and is limited to two pages (A4) and approximately 1,000 words. PDF format is preferable. Authors should pre-register on the symposium website in order to submit an extended summary. The submitted summaries will be reviewed by the international scientific committee members. Successful authors will be required to submit a full paper, limited to six pages.

Paper Submission website: http://www.fast-zero17.info/
At least one author for each technical paper must register and pay the symposium registration fee before the electronic submission of full paper. Accepted full papers with registered author(s) will be published in Symposium Proceedings.

Awards and Journal Publication
Best papers will be awarded, nominated by a panel of the FAST-zero international scientific committee.
Outstanding papers selected by the committee will be recommended for publication in IJAE of JSAD.

Registration
All delegates, including those presenting papers, are expected to register for the symposium. Registration includes a USB memory of the symposium proceedings, book of abstracts, attendance at all plenary and technical sessions, refreshments, reception and FAST-zero party.

Symposium Venue
The symposium will be held at Nara Kasugano International Forum, in Nara Park. The Forum can be reached by bus about 10 minutes from Kintetsu-Nara or JR-Nara station.
Address: Kasugano-cho, Nara-city, Nara 630-8212, Japan

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All inquiries and proposals concerning the symposium should be addressed to FAST-zero’17 Secretariat:
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IEEE Transactions on Intelligent Vehicles

The IEEE Transactions on Intelligent Vehicles (T-IV) publishes peer-reviewed articles that provide innovative research concepts and application results, report significant theoretical findings and application case studies, and raises awareness of pressing research and application challenges in the areas of intelligent vehicles, and in particular in automated vehicles.

The IEEE Transactions on Intelligent Vehicles will commence publication in 2017, with 4 issues annually. Prospective authors are invited to submit original contributions or survey papers for review for publication in T-IV. Topics of interest include (but are not limited to):

- Advanced Driver Assistance Systems
- Automated Vehicles
- Active and Passive Vehicle Safety
- Vehicle Environment Perception
- Driver State and Intent Recognition
- Eco-driving and Energy-efficient Vehicles
- Cooperative Vehicle Systems
- Collision Avoidance
- Pedestrian Protection
- Proximity Detection Technology
- Assistive Mobility Systems
- Proximity Awareness Technology
- Autonomous / Intelligent Robotic Vehicles
- IV related Image, Radar, Lidar Signal Processing
- Information Fusion
- Vehicle Control
- Human Factors and Human Machine Interaction
- IV technologies in Electric and Hybrid Vehicles
- Novel Interfaces and Displays
- Intelligent Vehicle Software Security

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Refer to http://its.ieee.org/2014/10/06/submitting-a-paper/ for general information about electronic submission through Manuscript Central.

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IEEE Intelligent Transportation Systems Society’s Sponsored Conferences

2017 IEEE Intelligent Vehicles Symposium (IV’17)
Jun 11-14, 2017
Redondo Beach, CA, USA
http://iv2017.org/

August 6-9, 2017
Cleveland, Ohio
https://www.asme.org/events/idetccie

IEEE 20th International Conference on Intelligent Transportation Systems (ITSC 2017)
October 16-19, 2017
Yokohama, Japan
http://www.itsc2017.org/
Submission due by: April 21, 2017

IEEE International Conference on Vehicular Electronics and Safety (ICVES 2017)
June 27-29, 2017
Vienna, Austria
http://www.ieee-icves2017.org/

IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2017)
September 18-20, 2017
Bari, Italy
http://dei.poliba.it/soli2017/
IEEE Forum on Integrated and Sustainable Transportation Systems (FISTS 2016)
Beijing, China
http://www.ieeefists.org/
Submission due for the next event: To be determined

The 3rd International Conference on Universal Village (UV 2016)
Nagoya, Japan
http://www.universal-village.org/
Submission due for the next event: To be determined

The 6th IEEE International Conference on Advanced Logistics and Transport (IEEE ICALT'2017)
July 24-27, 2017
Bali, Indonesia
http://icalt.org/2017/
Submission due by: April 01, 2017

The 2016 IEEE International Conference on Intelligent Rail Transportation (IEEE ICIRT 2016)
Birmingham, UK
http://www.ieee-icirt.com/
Submission due for the next event: To be determined

Other Conferences

2017 SAE Battelle CyberAuto Challenge
August 06-11, 2017
Warren, Michigan, USA
http://www.sae.org/events/cyberauto/

The 22nd International Symposium on Transportation and Traffic Theory (ISTTT22)
July 24-26, 2017
Northwestern University, Evanston, Illinois, USA
http://sites.northwestern.edu/isttt/

IEEE 85th Vehicular Technology Conference: VTC2017-Spring
June 4-7, 2017
Sydney, Australia
http://ieeevtce.org/vtc2017spring/

IEEE Multi-Conference on Systems and Control (MSC 2016)
Buenos Aires, Argentina
http://www.msc2016.org/
Submission due for the next event: To be determined

September 24-28, 2017
Vancouver, BC, Canada
http://www.iros2017.org

ITS World Congress 2017

October 29-November 2, 2017
Montreal, Canada
http://itsworldcongress2017.org/

Seminars and Dagstuhl Perspectives Workshops 2017

Schloss Dagstuhl, Germany
https://www.dagstuhl.de/en/program/calendar/?dag_type=12&dag_year=2017


January 27-29, 2018
Porto, Portugal
http://www.visigrapp.org

The 5th International Conference on Connected Vehicles & Expo (ICCVE 2016)

Seattle, WA, USA
http://www.iccve.org/
Submission due for the next event: To be determined

Intertraffic Amsterdam 2018

March 20-23, 2018
Amsterdam, Netherlands
http://www.intertraffic.com/amsterdam/

WCX17: SAE World Congress Experience

April 04-06, 2017
Detroit, Michigan, USA
http://www.wcx17.org


April 22-24, 2017
Porto, Portugal
http://www.vehits.org

IEEE International Conference on Robotics and Automation (ICRA 2017)

May 29-June 03, 2017
Singapore
http://icra2017.org
19th International Conference on Image Analysis and Processing (ICIAP 2017)

*September 11-15, 2017*
Catania, Italy


*Submission due by: March 31, 2017*
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