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SOCIETY NEWS

From the Editor
Shunsuke Kamijo

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

We have a number of CFPs for ITSC and other ITS related conferences and workshops coming in 2017 and 2018. “The First Intelligent Transportation Systems Data Mining Hackathon” is also included. In addition, we are publishing transactions on IV. Transactions on IV started almost two years ago and the number of publishing papers are getting increased.

There is a message from the IEEE ITS Society president and an announcements about "ITSS Chapter Support Proposal". We are also publishing the conference report of IV2017 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!
Engaging the ITS Industry

Dear IEEE ITS Society members:

I met with many of you about two months ago at the 2017 IEEE Intelligent Vehicles Symposium in the beautiful Redondo Beach, California. There is no doubt that this meeting has been a huge success, breaking many records including the number of paper submissions and conference registrants. The meeting featured an excellent, fully-attended technical program covering cutting-edge research and applications for Intelligent Vehicles and Vehicle-Infrastructure Cooperation. The meeting was also doing extremely well on the financial front. The society would like to express its sincere gratitude to the IV 2017 organizing team and volunteers, led by Professor Petros Ioannou, for their tireless and most effective efforts.

At the IV 2017 banquet, the society recognized two long-time contributors to our society and the ITS community at large. Ms. Simona Bertè received an IEEE ITS Society Distinguished Service Award for her dedicated service to the IEEE ITS Society through years of editorial service for the IEEE Transactions on ITS and the IEEE ITS Magazine. Ms. Emily Sopensky received an IEEE ITS Society Distinguished Service Award for her dedicated service to the IEEE ITS Society and for efforts instrumental for the society operations and collaborations with other IEEE organizations. Congratulations to both awardees!

One more piece of good news. I am very proud and happy to report that the IEEE Educational Activity Board (EAB) is awarding Dr. Cristina Olaverri Monreal, our society’s Vice President for Educational Activities, the prestigious IEEE EAB Meritorious Achievement Award in Continuing Education, for “designing and implementing innovative courses and programs in the field of intelligent transportation systems.” As many of you know, Dr. Olaverri is the inaugural Vice President for Educational Activities in our society. This position was established in 2016 to lead, design, and implement educational activities in the field of the ITS, which is going through rapid development and offers many career opportunities for fresh graduates and experienced engineers alike. In this capacity as well as her former role as a member of the ITS Society’s Board of Governors, Dr. Olaverri has performed admirably designing and coordinating several society-wide educational activities, including the very successful ITS online courses, to help educate professionals and students about the prospects and career paths within ITS. Congratulations to Dr. Olaverri for this well-deserved recognition! This IEEE-wide award also signifies the success of our society’s educational endeavors in recent years. The society wishes to thank all the volunteers contributing to these endeavors as lecturers, facilitators, and participants.

Message from the IEEE ITS Society President
Much of the innovation in the field of ITS is driven by the industry. ITS research realizes its societal impact through industry applications. Many of the ITS research labs around the globe are funded and supported by the industry, at least partially. A large number of ITS students pursue industrial careers. Yet, the industry is severely under-represented in the IEEE ITS Society membership. This has been recognized by the ITS Society leadership as one of the key challenges that need to be addressed, in order to maintain sustainable growth of our society, keep our research agenda current and relevant, and maximize the real-world impact of ITS research.

The society has kick-started an array of initiatives aiming to reach out to our industry collaborators and potential partners. Our educational activities already have a significant industrial component. Our recent standards activities are specifically designed to engage the ITS industry. Our main conferences routinely run industry tracks, attracting application-oriented papers with authors from the industry. The IV symposium series has always had strong industry presence through vehicle demos and exhibitions. Yet, the results have been mixed as to increasing the industry membership. The society as a whole needs to think innovatively and act smartly to tackle this challenge. In particular, I think the members of our society who are from industry will have a lot to offer. Feedback and insights are critically needed for us to formulate a collective plan and move forward. How can we make the ITS society membership benefits more relevant to industry members? How can we customize such benefits? Should we try other membership approaches? For instance, some IEEE societies offer customized industry membership, with a very different mix of benefits from the standard membership largely targeting at the academia. Should we use technical sub-committees as a mechanism to reach out to the industry? If you have good ideas or feedback as to how to attract the industry members, please feel free to share with me (zeng@email.arizona.edu) and our Vice President for Membership, Professor Brendan Morris (brendan.morris@unlv.edu)!

Let’s work together to build a diverse, well-balanced, and sustainable ITS community with a strong industry component!

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.

RATES

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

IEEE Professional Member | US $35.00
IEEE Student Member | US $18.00
Society Affiliate | US $109.50

“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

sites.ieee.org/itss
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

sites.ieee.org/itss
IEEE ITSS Chapter Support Awards

Call for Proposals

The Society is now accepting proposals to support Chapter Activities for the 2017 year. Funds are available to support and facilitate meetings such as distinguished lectures. It is expected to cover the cost of airfare and hotel for the speaker. Alternatively, funds could be used to offset student travel costs to attend an event.

The awards will be allocated by formal request. The proposals will be evaluated on a first-come first-served basis. Please use the Chapter Support Template available on the ITSS website to be considered which includes a description of the proposed activity, the requested amount of support, and the objective of the event. A condition for award is a summary report of the event which also includes a list of all participants.

Please submit the proposal materials or to ask questions by email to Brendan Morris, ITSS Vice President for Membership, at brendan.morris@unlv.edu.
Highlight of 2017 IEEE Intelligent Vehicle Symposium

The IEEE IV ’17 was held in beautiful Redondo Beach in Southern California from June 11 - 14, 2017. It was a high quality and most interactive symposium, providing the participants with an opportunity to extend their knowledge, their networking and their ideas with many fruitful discussions.

The conference organization committee received a total of 468 papers. This number is a historical high number of submissions in the 28-year history of the IV symposium. Overall 1,120 authors from 30 countries/regions appears in the IV’17 symposium proceedings. 307 authors came from Germany, 235 authors from USA, 120 authors from China, 87 authors from France, 72 authors from Japan, 65 from South Korea, 44 from Sweden, 35 authors from Italy, 24 authors from Canada, 23 authors from Spain, 14 authors from Australia, 13 authors from United Kingdom, 12 from the Netherlands, 8 authors from Belgium, 7 Authors each from India and Romania, 6 authors from Greece, Singapore and Taiwan each, 5 authors each from Brazil, Switzerland and Turkey, 4 authors from Austria, 2 authors each from Albania, Columbia and Norway, and 1 author from Malaysia Mauritania, Portugal, and South Africa. Additionally, authors from Egypt, Lebanon, Luxembourg, Mexico, Russia, Saudi Arabia, and Senegal also submitted candidate papers.

Through a thorough evaluation by the technical program committee, 297 papers were selected. The contributed papers covered all aspects of intelligent vehicles, including vehicle environment perception, sensing signal and image processing, data and information fusion, active and passive safety, V2X communications and cooperative vehicle-highway systems, Energy ITS, advanced vehicle control, driver assistance systems, and automated vehicles.
Technical Program

The symposium included an event packed three-day technical program, which maintained the unique single-track presentation format, complemented by parallel interactive sessions. The technical program had 6 plenary sessions and 29 poster sessions. The program provided an opportunity to all authors to speak about their work, some with full length presentations at plenary sessions and others with summary presentations of their work at breakout poster sessions. Each and every author was able to interact with symposium participants in front of their posters.

The technical program was enriched with four keynote talks. The distinguished keynote speakers included:

Dr. Fawzi Nashashibi, Research Director and the Program Manager of the RITS Team at INRIA, France, provided an overview of the latest advancements in intelligent vehicles research in Europe;

Mr. Brian Cronin, Director of the Office of Operations Research and Development, US Department of Transportation Federal Highway Administration, discussed the research and development toward Connected Automation with a focus on improving system performance;

Dr. Fei-Yue Wang, Director of the Key Lab of Complex Systems and Intelligence Science of the Chinese Academy of Science presented ‘AI 2.0 and Future Challenge for IV: A Chinese Perspective and Practice’; and

Dr. Matthias Schulze, Senior Director of ADAS, Visteon Corporation in Germany offered industrial perspectives on Autonomous Driving.
Workshops and Tutorials
Nine workshops and tutorials were organized during the day before the conference regular program. The workshop topics covered a wide range of issues associated with connected and automated vehicles. Detailed information is available at www.iv2017.org.

Exhibition
In conjunction with the conference, developers of autonomous technologies including Autonomoustuff, Bosch, Intel, and Velodyne demonstrated their test vehicles. The conference participants had the opportunity to interact with the representatives of the demo companies for in-depth technical exchanges on the state-of-the-art technologies.
ITSS Society Activities

IV2017 hosted the first ever Women in Intelligent Transportation Systems (WITS) meet and greet, a fun and casual evening of community building and networking. While transportation is increasingly attracting and engaging talented scholars, the percentage of female leaders and researchers both in the academia and in the industry is still relatively low. We hosted this WITS event to bring together both women and men who are interested in creating a more welcoming and diverse community. The event brought together over 20 outstanding women, where we shared our experiences, provided advice, and discussed how to improve and diversify our community. Not only did this event help build a stronger network, but hopefully marks the beginning of a strong community effort to support diversity within the ITS Society. We hope to continue to support women in our field with future WITS events at ITS conferences. Please contact Katie Driggs-Campbell (krdc@stanford.edu) and/or Sujitha Martin (sujitha.martin@gmail.com) if you’re interested in being involved!
Conference Banquet

A banquet was hosted at the conference hotel. Accompanied by live entertainment, the attendees had the opportunity to catch up with old friends and meet with new acquaintances.

The banquet is also an occasion for the IEEE ITS Society to present awards to those who made substantial contributions to the society and provide general information about the society and its upcoming events.

Dr. Alberto Alberto Broggi was awarded by IEEE with the 2017 Medal for Environmental and Safety Technologies for leadership in vehicular environmental perception, and for setting worldwide milestones in safe and reliable intelligent vehicles.
Emily Sopensky was awarded by the IEEE Intelligent Transportation Systems Society with the 2017 Distinguished Service Award for or dedicated service to the IEEE ITS Society and for efforts instrumental for the society formation and effective operation.

Simona Bertè was awarded by IEEE ITSS with the 2017 Distinguished Service Award For dedicated service to the IEEE ITS Society through years of editorial service for the Transactions on ITS.
Best Paper Awards

The Best Paper Award Ceremony was held at the banquet. In three categories, the Program Chairs Tankut Acarman, Arnaud de La Fortelle and Ming Yang handed out the Best Paper Awards.
Best Paper Award – First Prize:
Laurent DELOBEL, Romuald Aufrere, Roland Chapuis, Thierry Chateau (France)
For the paper entitled: Towards Automated Map Updating for Mobile Robot Localization

Best Paper Award – Second Prize:
Biao Xu, Jeff Ban, Yougang Bian, Jianqiang Wang, Keqiang Li (China)
For the paper entitled: V2I Based Cooperation between Traffic Signal and Approaching Automated Vehicles

Best Poster Paper Award – First Prize:
Marc Tschentscher, Ben Pruss, Daniela Horn (Germany)
For the paper entitled: A Simulated Car-Park Environment for the Evaluation of Video-Based On-Site Parking Guidance Systems

Best Poster Paper Award – Second Prize:
Hanno Jaspers, Michael Himmelsbach, Hans Joachim Joe Wuensche (Germany)
For the paper entitled: Multi-Modal Local Terrain Maps from Vision and LiDAR

Best Student Paper Award – First Prize:
Eduardo Romera, José M. Alvarez, Luis M. Bergasa, Roberto Arroyo (Spain)
For the paper entitled: Efficient ConvNet for Real-Time Semantic Segmentation

Best Student Paper Award – Second Prize:
Zheng Wang, Rencheng Zheng, Tsutomu Kaizuka, Kimihiko Nakano (Japan)
For the paper entitled: The Effect of Haptic Guidance on Driver Steering Performance during Curve Negotiation with Limited Visual Feedback
Acknowledgments

We gratefully acknowledge over 100 colleagues who served as associate editors and close to 1000 reviewers for their review and evaluation of the contributed papers. We would like to thank Co-Chairs of the Technical Program Committee Arnaud de La Fortelle, Tankut Acarman, MingYANG, and Yaobin Chen who contributed significant time to the conference program. We would also like to thank Jan Becker, James Misener and Onur Altintas for organizing the vehicle demonstration and exhibits. Appreciation also goes to International Committee Shunsuke Kamijo, Mauro Da Lio, Meng Lu for their outreach efforts and to the Chair of IV’16 Professor Jonas Sjöberg of Chalmers University of Technology for his advice. The collective efforts of these colleagues ensured the quality of the proceedings.

We would like to thank more than 1100 authors who contributed quality papers to the conference. We also like to thank the workshop and tutorial organizers and speakers. Thanks all participants who contributed to great interactive discussions at the poster sessions, at the coffee and lunch breaks.

Our deep appreciation also goes to the volunteers helping during the conference and resolved issues to ensure the smoothness of the conference.

Finally, we would like to acknowledge the contributions of the sponsors and exhibitors.

Conference Chair  Program Chair  Outreach Chair

Petros Ioannou  Wei-Bin Zhang  Mathew Barth
University of Southern  University of California  University of California
California        at Berkeley             at Riverside
ITS Podcast New Episodes and Information

Please, circulate this!

**ITS Podcast Episode 42**: Towards Sustainable Road Transport

Dear readers I hope you had a joyful summer. Full of adventures. Happy new academic year for all those who start it in September. This episode starts with a short news mini-section by Dr Maryam Kaveshgar, followed by a book review by Prof. Haluk Eren, from Firat University. The book title is “**TOWARDS SUSTAINABLE ROAD TRANSPORT**”, and consists of 368 pages; written by Ronald Dell, Patrick Moseley, and David Rand.

**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.
IEEE ITSC 2017
IEEE 20th International Conference on Intelligent Transportation Systems
Hotel Mielparque Yokohama
Yokohama, Kanagawa, Japan
October 16-19, 2017

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 → July 10, 2017

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WEB: 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 Logics
- 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 electronically through EDAS (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 IEEE Xplore. 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
First Intelligent Transportation Systems Data Mining Hackathon
to be celebrated under the
20th IEEE 20th International Conference on Intelligent Transportation Systems
Yokohama, JAPAN.
http://www.itsc2017.org/

Date and location: October, 16. 2017. 8:00 to 18:00, at the conference venue.

Topic:
The topic of this first edition will be NATURALISTIC DRIVING. We will set up a Kaggle competition to detect lane-changes upon data captured at a vehicle, on expressways around Nagoya University. The data captured include:

- Front video
- Distances to surrounding objects as acquired by laser scanners
- Driving behavior signals (Velocity, Force on brake pedal, Force on gas pedal, Steering wheel angle, Longitudinal and Lateral acceleration)

The evaluation of the submitted solution will be using the accuracy of the classification model developed. In case of tied solutions, the evaluation committee will decide with regard of the quality and interest of the presented solution.

Registrants at IEEE ITSC 2017 conference will have a complimentary registration at this competition, once selected. This includes food, coffee and tea during the whole competition.

We will select contestants upon evaluation of their resume. We will select up to 30 challengers in basis of their data science background and experience.

Interested, please submit your resume to javier.sanchez.medina@ieee.org before August the 1st, with [ITS DM HACKATHON] as subject. We will share further details on the competition to the selected participants.

The winner of this challenge will receive a certificate and a prize of 2000$ to be delivered at the IEEE ITSC 2017 gala dinner, followed by a short presentation on the submitted solution at a plenary session of IEEE ITSC2017.

Sponsored by IEEE ITSC 2017, Nagoya University and IEEE Intelligent Transportation Systems Society.

Organizers and Evaluation Committee:
Kazuya Takeda, Nagoya University, Japan       Daniel Zeng, University of Arizona, USA
Shunsuke Kamijo, University of Tokyo, Japan    Javier J. Sanchez-Medina, ULPGC, Spain
Call for Paper

2018 IEEE Intelligent Vehicles Symposium (IV’18)
Sponsored by the IEEE Intelligent Transportation Systems Society
Changshu, Suzhou, China, June 26-July 1, 2018
http://www.iv2018.org

The 2018 IEEE Intelligent Vehicles Symposium (IV’18) is a premier annual technical forum sponsored by the IEEE Intelligent Transportation Systems Society (ITSS). It brings together researchers and practitioners worldwide to share and discuss the latest advances in theory and technology related to intelligent vehicles. It welcomes articles dealing with any aspect of intelligent vehicles, as well as proposals for workshops and tutorial sessions.

Together with IV’18, the Chinese ninth Intelligent Vehicles Future Challenge (IVFC 2018, June 30-July 1, 2018) will be held at the Chinese flagship Intelligent Vehicle Proving Center (IVPC), Changshu, Suzhou, China. Over 20 autonomous vehicle teams participated in the IVFC 2016. Demonstration and Exhibition related to intelligent vehicles are also welcome.

TOPICS OF INTEREST

The topics of interest include and but are not limited to the following:

- Automated vehicles with/without pilot/driver
- Advanced driver assistance systems
- Vehicle dynamics and control
- Advanced sensing and recognition
- Connected vehicles
- Human factors and driver personalization
- Intelligent electrified vehicles
- Parallel driving: cyber-physical-social systems based connected automated vehicles
- Navigation and localization systems
- Vehicular signal processing
- Artificial intelligence technologies in intelligent vehicles
- Human machine interaction
- Vehicle on-board diagnostics
- Vehicle hardware/software systems
- Inter-vehicular networks
- Testing and assessment of connected and automated vehicles
- Policies and regulations for intelligent vehicles

IMPORTANT DATES

December 17, 2017
Proposal for invited sessions/ workshops

January 15, 2018
Full paper submission

March 31, 2018
Notification of paper acceptance

April 08, 2018
Final paper submission
PAPER SUBMISSION

Regular paper submission:
Complete manuscripts in PDF must be submitted electronically at the conference website: http://www.iv2018.org. Manuscripts should be at most eight pages in the IEEE two-column format.

Proposal submission for invited sessions and workshops:
Proposals should include a one-page summary of the proposed session with authors’ name, affiliation, title of the abstract with five extended abstracts (less than 1000 words) attached. Please contact us at: ieeeiv2018@gmail.com or visit http://www.iv2018.org if you have any questions.

Journal special issues:
High quality papers will be selected and recommended for consideration for special issues in IEEE Transactions on Intelligent Transportation Systems, IEEE/CAA Journal of Automatica Sinica and IEEE Intelligent Transportation Systems Magazine. Authors will be asked to revise their papers according to the journal standards, which be subjected to the journal review process.

CONFERENCE ORGANIZING COMMITTEE

General Chair
Prof. Fei-Yue Wang, Institute of Automation, Chinese Academy of Sciences, China

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Prof. Lingxi Li, Indiana University-Purdue University Indianapolis, USA
Prof. Dongpu Cao, Cranfield University, UK
Objectives

The goal of the 14th ASME/IEEE MESA2018 is to bring together experts from the fields of mechatronic and embedded systems, disseminate the recent advances in the area, discuss future research directions, exchange application experience, and vision services they can enable. MESA2018 will especially bring out and highlight the latest research results and developments in the IoT (Internet of Things) era in the field of mechatronics and embedded systems. The conference site is in the heart of the city of Oulu, Hotel Radisson Blu Oulu. This year the conference has a specific focus, without limiting others, on the following Research Tracks/Symposia.

Symposia

- Autonomous Systems and Ambient Intelligence
- Bio-Mechatronics - Medical Devices & Technologies
- Bio-Inspired Robotics and Biorobotics
- Cloud Computing and Emerging Technologies for Mechatronic and Embedded Systems
- Cyber-Physical Systems and Hybrid Systems
- Diagnosis and Monitoring in Mechatronic Systems
- Embedded Systems Infrastructure and Theory
- Fractional Derivatives and Their Applications
- Mechatronics and Industry 4.0
- Mechatronic Control and Electrical Vehicular Systems
- Mechatronics and Embedded Systems Applications
- Mechatronics and Embedded Systems Education
- Mechatronic and Embedded Systems for Renewable Energy Systems
- Mechatronic and Embedded Technologies in Intelligent Transportation Systems
- Mechatronics for Hazardous Environments
- Robotics and Mobile Machines
- Mechatronic and Embedded Systems for Agriculture 4.0
- Sensors and Actuators
- Small Unmanned Aerial Vehicle Technologies and Applications
- Virtual Prototyping in Mechatronics
- Micro-/Nano-Manipulation Technologies and Applications
- Disturbance Rejection Control

Paper Submission

Manuscripts should be at most six (6) pages in IEEE two-column format and must be submitted in PDF format via the conference web-site. Please use the LATEX style file or Microsoft Word template to prepare your manuscript (template available on http://bit.ly/2matQlB). Accepted, peer-reviewed papers will be published in the conference proceedings, EI indexed, and submitted to IEEE Xplore.

Important Dates

- January 31, 2018: Full Paper Submission
- March 20, 2018: Notification of Acceptance
- April 30, 2018: Final Paper Submission
- April 30, 2018: Author Registration
IEEE RFID 2018 Call for Submissions

The 12th International Conference on RFID is seeking high-quality submissions for papers (from 3 to max 8 pages), posters (2-page abstract), workshops and tutorials.

Submission Guidelines
Submit Now

Submission Deadlines
Papers: December 5, 2017
Workshop/Tutorial proposals: January 10, 2018
Posters: February 5, 2018

IEEE RFID 2018 Topic Areas:
Antennas & Propagation: Antenna theory and designs, channel measurements and modeling, including MIMO, UWB and hybrid RFID
Applications & Software: RFID software, middleware, network applications, various applications of RFID in smart cities, scientific studies on operational experience of RFID applications, unconventional RF “identification”. Selection will be primarily based on the ability of authors to clarify how they are advancing the state of the art or demonstrating novelty.
Circuits, Devices, & Interrogators: Circuit designs, reader architecture, non-silicon and chipless RFID, multi-reader coordination and interference reduction
Energy Harvesting & Wireless Power: Ambient RF harvesting, efficiency improvements, power-optimized waveforms, kinetic, thermal, optical, and other power-harvesting methods
Next-Gen Physical Layer: RFID-enabled devices, IoT/RFID system architectures, MIMO, hybrid and UWB RFID systems, novel networking and communication concepts
Localization: Performance bounds, novel system approaches, technologies, and algorithms in RFID tag and reader localization, RF tomography and environmental sensing
Protocols & Security: Coding, anti-collision, cryptography and privacy-enhancing techniques, medium/multiple access schemes
Sensors: Integration of sensors with RFID tags, including active, passive, or chipless mechanisms; RFID sensor modeling and analysis, new sensors for RFID
Are you a leading expert in the RFID field? We welcome you to present a **tutorial/workshop** to the participants of the conference. Please email a short proposal (one-page maximum) to the **workshop chair**.

**At the IEEE RFID 2018**

Get face-to-face with **top researchers and scientists** working on RFID

Get **academic and industry perspectives** from the entire world

Learn from leading experts at interactive and hands-on **Workshops and Tutorials**

Explore IEEE RFID 2018

Explore RFID Journal Live!

The IEEE RFID 2018 is celebrating the 20th anniversary of the **Auto-ID Labs**!

**Explore Orlando and Florida**

Florida is filled with National Parks on international importance. Among them, the **Everglades National Park** boasts rare and endangered species, such as the American crocodile and the Florida panther.

Together with many world-famous theme parks, **Orlando** also offers comedy clubs, live music, wineries, breweries and much more.

Cape Canaveral is the home of the **Kennedy Space Center**, the hub of the nation’s human space program. It also offers 24 miles of fine beaches with 1,045 plant species and 310 bird species.
The 21th International IEEE Conference on Intelligent Transportation Systems
Maui, Hawaii, USA, November 4-7, 2018

The 2018 annual flagship conference of the IEEE Intelligent Transportation Systems Society will be held in Maui, Hawaii, United States. This conference welcomes papers and presentations in the field of Intelligent Transportation Systems, dealing with new developments in theory, analysis, simulation and modeling, experimentation, demonstration, case studies, field operational tests and deployments. ITSC 2018 particularly invites and encourages prospective authors to share their work, findings, perspectives and developments as related to implementation and deployment of advanced ITS applications.

Original contributions and workshop proposals are solicited in all areas pertinent to Intelligent Transportation Systems (see key topic areas at https://www.ieee-itss.org/). All presented papers will be published by the IEEE and included in IEEExplore. Please visit ITS Society webpage for more detailed information (https://www.ieee-itss.org/conferences).

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Important Dates
Please check our website for the latest Important Dates: http://www.ieee-itsc2018.org
- Regular Submissions Deadline: April, 1
- Workshop and Tutorials proposals: March, 15

Please visit the conference website at http://www.ieee-itsc2018.org for news and updated deadlines. You can also follow us at Twitter (@ITSC2018) and Facebook (ITSC2018).

Journal and Magazine Publication of Selected Papers
Selected papers of exceptional quality will be invited for submission to a special issue of the IEEE Transactions on ITS or the IEEE ITS Magazine. Authors will be asked to revise their papers according to the standards of the Transactions or the Magazine.

Topics - The technical areas include but are not limited to the following:
- Transportation Networks
- Advanced Public Transportation Management
- Ports, Waterways, Inland navigation, and Vessel Traffic Management
- Modeling, Simulation, and Detection of Vulnerable Road Users and Animals
- Air, Road, and Rail Traffic Management
- ITS User Services
- Emergency Management
- Artificial Transportation Systems
- Transportation Electrification
- Emissions, Noise, Environment
- Management of Exceptional Events: Incidents and Evacuation
- Security, Privacy and Safety Systems
- Transportation Smartification
- Deep Learning
- Automation and Robotics
- Commercial Vehicle Operations
- Intelligent logistics
- Sensing, Detectors and Actuators
- Connected and Probe Vehicles
- Big Data and Naturalistic Datasets
- Communication in ITS
- Cooperative Techniques and Systems
- Intelligent Vehicles
- Vision, and Environment Perception
- Electric Vehicle Transportation Systems
- Electronic Payment Systems
- Smart Mobility
- Traffic Theory for ITS
- Modeling, Control and Simulation
- Human Factors, Travel Behavior
- ITS Field Tests and Implementation
- Driver and Traveler Support Systems
- Shared Mobility
Call for Papers
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

All manuscripts must be submitted through Manuscript Central at http://mc.manuscriptcentral.com/t-iv

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

Editor-in-Chief: Prof. Ümit Özgüner, The Ohio State University, Department of ECE and Center for Automotive Research (CAR), Columbus, Ohio USA. (ozguner.1@osu.edu)
IEEE Intelligent Transportation Systems Society's Sponsored Conferences

2018 IEEE Intelligent Vehicles Symposium (IV’18)
June 26-July 1, 2018,
Changshu, Suzhou, China
http://www.iv2018.org/

IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA 2018)
July 2-4, 2018
Oulu, Finland
http://mesa2018.org/
https://www.asme.org/events/idetccie
Submission due by: January 31, 2018

IEEE 20th International Conference on Intelligent Transportation Systems (ITSC 2017)
Yokohama, Japan
http://www.itsc2017.org/
Submission due for the next event: To be determined

IEEE International Conference on Vehicular Electronics and Safety (ICVES 2018)
September 12-14, 2018
Madrid, Spain
http://www.icves2018.org/
Submission due by: April 30, 2018

IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2017)
Bari, Italy
http://dei.poliba.it/soli2017/
Submission due for the next event: To be determined
International Conference on Universal Village  
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)  
http://icalt.org/2017/  
Submission due for the next event: To be determined  

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

ISI: IEEE Intelligent Conference on Intelligence and Security Informatics (ISI)  
http://www.isi-conf.org/  
Submission due for the next event: To be determined  

IEEE Vehicular Networking Conference (VNC)  
http://www.ieee-vnc.org/  
Submission due for the next event: To be determined  

Other Conferences  

SAE Battelle CyberAuto Challenge  
Warren, Michigan, USA  
http://www.sae.org/events/cyberauto/  
Submission due for the next event: To be determined  

The 23rd International Symposium on Transportation and Traffic Theory (ISTTT23)  
July 24-26, 2019  
Lausanne, Switzerland  
https://isttt23.sciencesconf.org/  
Submission due by: December 1, 2017  

IEEE 86th Vehicular Technology Conference: VTC2017-Fall  
24–27 September 2017  
Toronto, Canada  
http://ieeevtcone.org/vtc2017fall/  

IEEE Multi-Conference on Systems and Control  
http://mxc2016.ieeecss.org/  
Submission due for the next event: To be determined
October 1-5, 2018
Madrid, Spain
https://www.iros2018.org/
Submission due by: March 1, 2018

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/

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

International Conference on Connected Vehicles & Expo (ICCVE)
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/

WCX18: SAE World Congress Experience
April 10-12, 2018
Detroit, Michigan, USA
http://wcx18.org/

March 16-18, 2018
Funchal-Madeira, Portugal
http://www.vehits.org
Submission due by: October 16, 2017

IEEE International Conference on Robotics and Automation (ICRA 2018)
May 21-25, 2018
Brisbane, Australia
http://icra2018.org/
19th International Conference on Image Analysis and Processing (ICIAP 2017)

September 13-15, 2017
http://www.iciap2017.com/
Submission due for the next event: To be determined
Forthcoming papers on IEEE Transactions on ITS

Real-time feedback impacts on eco-driving behavior and influential variables in fuel consumption in a Lisbon urban bus operator
Catarina Rolim, Patricia Baptista, Gonçalo Duarte, Tiago Farias, João Pereira

Road recognition from remote sensing imagery using incremental learning
Jing Zhang, Lu Chen, Chao Wang, Li Zhuo, Qi Tian, Xi Liang

A Generalized Method to Extract Visual Time-sharing Sequences from Naturalistic Driving Data
Christer Ahlstrom, Katja Kircher

Throughput of Infrastructure-based Cooperative Vehicular Networks
Jiejiong Chen, Guoqiang Mao, Changle Li, Ammar Zafar, Albert Zomaya

Learning Roadway Surface Disruption patterns using the Bag of Words representation
Luis-Carlos Gonzalez-Gurrola, Ricardo Moreno, Hugo Jair Escalante, Fernando Martinez, Ricardo Carlos

An Optimization Approach for Localization Refinement of Candidate Traffic Signs
Zhe Zhu, Jiaming Lu, Ralph Martin, Shimin Hu

Estimation of performance metrics at signalized intersections using loop detector data and probe travel times
Qijian Gan, Gabriel Gomes, Alexandre Bayen

Ant Colony Optimisation for Simulated Dynamic Multi-objective Railway Junction Rescheduling
Shengxiang Yang, Jayne Eaton, Mario Gongora

Adaptive Compensation of Traction System Actuator Failures for High-Speed Trains
Bin Jiang, Zehui Mao, Gang Tao, Xing-Gang Yan

Reduction of air traffic complexity using trajectory-based operations and validation of novel complexity indicators
Tomislav Radišić, Doris Novak, Biljana Juričić

Cyber Threats Facing Autonomous and Connected Vehicles: Future Challenges
Simon Parkinson, Paul Ward, Kyle Wilson, Jonathan Miller

A Low-cost Lane Determination System Using GNSS/IMU Fusion and HMM-based Multistage Map Matching
Mohamed Atia, Allaa Hilal, Clive Stellings, Eric Hartwell, Jason Toonstra, William Miners, Otman Basir

Reusability of the output of map-matching algorithms across space and time through machine learning
Mahdi Hashemi
Sampling Based Path Planning for UAV Collision Avoidance
Yucong Lin, Skikanth Saripalli

Junmin Wang, Shuwei Zhang, Yugong Luo, Xiao Wang, Keqiang Li

A Graph Theoretic Approach to the Robustness of k-Nearest Neighbor Vehicle Platoons
Mohammad Pirani, Ehsan Hashemi, John Simpson-Porco, Baris Fidan, Amir Khajepour

Simultaneous Optimization of Airspace Congestion and Flight Delay in Air Traffic Network Flow Management
Mingming Xiao, Kaiquan Cai, Jun Zhang, Ke Tang, Wenbo Du

Statistical Anomaly Detection in Human Dynamics Monitoring Using Hierarchical Dirichlet Process Hidden Markov Model
Keita Kamiya, Takashi Fuse

Deep CNNs with Spatially Weighted Pooling for Fine-grained Car Recognition
Qichang Hu, Huibing Wang, Teng Li, Chunhua Shen

Personalized Prediction of Vehicle Energy Consumption based on Participatory Sensing
Chi-Kin Chau, Chien-Ming Tseng

Safe Optimization of Highway Traffic with Robust Model Predictive Control-based Cooperative Adaptive Cruise Control
Carlos Massera, Marco Terra, Denis Wolf

Maritime Traffic Probabilistic Forecasting based on Vessels’ Waterway Patterns and Motion Behaviours
Loganathan Ponnambalam, Zhe Xiao, Xiuju Fu, Wanbing Zhang

Spatio-Temporal Analysis of Passenger Travel Patterns in Massive Smart Card Data
Juanjuan Zhao, Qiang Qu, Fan Zhang, Chengzhong Xu, Siyuan Liu

A Robust Lane Detection Method Based on Vanishing Point Estimation Using Relevance of Line Segments
Dong Hwan Kim, Ju Han Yoo, Seong-Whan Lee, Sung-Kee Park

Energy-Efficient Train Control by Multi-Train Dynamic Cooperation
Xubin Sun, Hong Lu, Hairong Dong

Integrated Cooperative Adaptive Cruise and Variable Speed Limit Controls for Reducing Rear-End Collision Risks near Freeway Bottlenecks Based on Micro-simulations
Chengcheng Xu, Ye Li, Lu Xing, Wei Wang
Reinforcement Learning-Based Variable Speed Limit Control Strategy to Reduce Traffic Congestion at Freeway Recurrent Bottlenecks
Pan Liu, Zhibin Li, Chengcheng Xu, Hui Duan, Wei Wang

Moving-Object Detection from Consecutive Stereo Pairs using Slanted Plane Smoothing
Long Chen, Lei Fan, Guodong Xie, Kai Huang, Andreas Nuchter

Jun Zhang, Dayong Shen, Lai Tu, Fan Zhang, Chengzhong Xu, Yi Wang, Chen Tian, Xiangyang Li, Benxiong Huang, Zhengxi Li
Transactions on Intelligent Issues Volume 2 Issue 3:

**Performance Enhanced Predictive Control for Adaptive Cruise Control System Considering Road Elevation Information**
Shengbo Eben Li, Qianggiang Guo, Shaobing Xu, Jingliang Duan, Shen Li, Chengjun Li, Kuifeng Su

**Intelligent Viaduct Recognition and Driving Altitude Determination using GPS Data**
Li-Ta Hsu, Yanlei Gu, Shunsuke Kamijo

**Fuel Minimisation for a Vehicle Equipped with a Flywheel and Battery on a Three-Dimensional Track**
Mehdi Imani Msouleh, David J. N. Limebeer

**Evaluation of Lane Departure Correction Systems Using a Regenerative Stochastic Driver Model**
Wenshuo Wang, Ding Zhao

**Simultaneous Localization And Mapping: A Survey of Current Trends in Autonomous Driving**
Guillaume Bresson, Zayed Alsayed, Li Yu, Sebastien Glaser

**Displaying system situation awareness increases driver trust in automated driving**
Kohei Sonoda, Takahiro Wada
Forthcoming papers on IEEE ITS Magazine

Ready for Take-Over? A New Driver Assistance System for an Automated Classification of Driver Take-Over

Online Recognition of Driver-Activity based on Visual Scanpath Classification

Autonomous Vehicle-Intersection Coordination Method in a Connected Vehicle Environment

On the similarities between urban traffic management and communication networks: application of the Random Early Detection algorithm for self-regulating intersections

Implementation and Evaluation of a Cooperative Vehicle-to-Pedestrian Safety Application

On the Use of Monte-Carlo Simulation and Deep Fourier Neural Network in Lane Departure Warning

Analytical approach to estimate delay reduction associated with bus priority measures

Locating various ship license numbers in the wild: An effective approach

Heavy-vehicle gap control for bridge loading mitigation
Yisheng Lv; Yanjie Duan; Wenwen Kang; Zhengxi Li; Fei-Yue Wang

Victoria J. Hodge; Simon O'Keefe; Michael Weeks; Anthony Moulds

3. Looking at Vehicles on the Road: A Survey of Vision-Based Vehicle Detection, Tracking, and Behavior Analysis
Sayanan Sivaraman; Mohan Manubhai Trivedi

Amir Mukhtar; Likun Xia; Tong Boon Tang

Cem Bila; Fikret Sivrikaya; Manzoor A. Khan; Sahin Albayrak

Most popular papers on IEEE ITS Magazine

1. Autonomous Vehicle Safety: An Interdisciplinary Challenge
Philip Koopman; Michael Wagner

2. Three Decades of Driver Assistance Systems: Review and Future Perspectives
Klaus Bengler; Klaus Dietmayer; Berthold Farber; Markus Maurer; Christoph Stiller; Hermann Winner

3. Speed Tracking Based Energy-Efficient Freight Train Control Through Multi-Algorithms Combination
Jie Yang; Limin Jia; Yunxiao Fu; Shaofeng Lu

4. A Tutorial on Graph-Based SLAM
Giorgio Grisetti; Rainer Kummerle; Cyrill Stachniss; Wolfram Burgard

5. Dynamical Modeling and Distributed Control of Connected and Automated Vehicles: Challenges and Opportunities
Shengbo Eben Li; Yang Zheng; Keqiang Li; Yujia Wu; J. Karl Hedrick; Feng Gao; Hongwei Zhang

Most popular episode on IEEE ITS Podcast

ITS Podcast Episode 21: NOTICE. Traffic Incidents Reporting
Samy El-Tawab
## Officers and Committee Chairs

### Officers

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<td>President:</td>
<td>Daniel Zeng, U. of Arizona, Tucson, AZ, USA</td>
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<td>President-elect</td>
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<td>VP Admin Activities:</td>
<td>Professor Azim Eskandarian, Virginia Tech, USA</td>
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<td>VP Member Activities:</td>
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<td>Fellow Evaluation Committee</td>
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<td>Standing Committee on Finance</td>
<td>Alberto Broggi</td>
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<td>ITSS History Committee</td>
<td>Ümit Özgüner</td>
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<td>Member Activities Committee</td>
<td>Christoph Stiller</td>
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<td>Nominations and Appointments Committee</td>
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<td>Standing Committee on Publications</td>
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<td>Student Activities Committee</td>
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<td>Standing Committee on Technical Activities</td>
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