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The IEEE ITS Society Newsletter is published quarterly the first Wednesday of January, April, July, and October, reaching more than 17000 subscribers. You can download any issue for free, here: http://its.ieee.org

SUBSCRIBE TO THIS MAIL LIST: https://listserv.ieee.org/cgi-bin/wa?SUBED1=itssnews&A=1

You can also UNSUBSCRIBE here: mailto:ITSSNEWS-SIGNOFF-REQUEST@listserv.ieee.org.

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Follow our IEEE ITS Society’s Activities:
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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/xpgl8WLr9F](http://goo.gl/forms/xpgl8WLr9F)

From the Editor
Shunsuke Kamijo

Dear readers, We have the third 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 announcements about Call for Nominations for "IEEE ITS Awards" and "Best Ph.D. Dissertation Award". We have also announcements about "ITSS Chapter Support Proposal". We are also publishing 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!
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.

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

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

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

sites.ieee.org/itss
IEEE ITS Awards

Call for Nominations [Extended]

The prestigious
- IEEE ITS Outstanding Research Award,
- IEEE ITS Outstanding Application Award
- 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.

Exemplary contributions to Intelligent Transportation Systems over are career can be recognized through the IEEE ITS Lifetime Achievement Award. To be eligible for the lifetime award, the nominee should be at least 65 years old.

In addition, a new IEEE ITS Young Researcher/Engineer Award is in place to recognize early career contributions and leadership in research and/or application in ITS related fields. Eligible applicants should not be older than 40 years.

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 by July 17, 2017 to Brendan Morris, ITSS Vice President for Membership, at brendan.morris@unlv.edu.
IEEE ITSS Best Ph.D. Dissertation Award

Call for Applications [Extended]

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>
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<tr>
<th>Place</th>
<th>Prize Amount (USD)</th>
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<tr>
<td>1st</td>
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<td>2nd</td>
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<td>$500</td>
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</tbody>
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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 by July 17, 2017 to Brendan Morris, ITSS Vice President for Membership, at brendan.morris@unlv.edu.
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.
ITS Podcast New Episodes and Information

Please, circulate this!

**ITS Podcast Episode 41**: Vehicle data, Smart Mobility and Transportation Electrification

We have some interesting news about the Kangaroos in Australia and few updates in our industry. We are then going to listen to a book Review From Prof. Haluk Eren from Firat University. The book title is “Roadside Video Data Analysis: Deep Learning, By Brijesh Verma, Ligang Zhang, and David Stockwell”.

This is followed by an interview conducted by Prof. Miller from USC with Prof. Roberto Bertini, director of the Center for Urban Transportation Research, at the University of South Florida and the former deputy administrator of the research and innovative technology administration at the U.S. Department of Transportation.

**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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CONTACT US
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 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/). 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 IEEEXplore. 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
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
CALL FOR PAPERS
The 15th IEEE International Conference on Intelligence and Security Informatics (ISI), July 22-24, 2017, Beijing, China (www.isi-conf.org)
(The submission deadline for IEEE ISI2017 has been extended to April 25th)

INTRODUCTION

Intelligence and Security Informatics (ISI) research is an interdisciplinary research field involving academic researchers in information technologies, computer science, public policy, bioinformatics, medical informatics, and social and behavior studies as well as local, state, and federal law enforcement and intelligence experts, and information technology industry consultants and practitioners to support counterterrorism and homeland security’s missions of anticipation, interdiction, prevention, preparedness and response to terrorist acts.

The annual IEEE International Conference on ISI (IEEE ISI) is a leading conference in security informatics domain, which was started in 2003 in Tucson, Arizona. Since then, the conference has been hosted in Atlanta, San Diego, New Brunswick, Taipei, Dallas, Vancouver, Beijing, Seattle, Washington DC, the Hague, Baltimore and Tucson. Over the past 14 years, the IEEE ISI Conference has evolved from its traditional orientation of intelligence and security domain towards a more integrated alignment of multiple domains, including technology, humans, organization, and security. The scientific community has increasingly recognized the need to address intelligence and security threats by understanding the interrelationships between these different components, and by integrating recent advances from different domains. This year, the IEEE ISI conference will be held in Beijing, China.

CONFERENCE THEME & TOPICS

The conference theme is Security and Big Data. In addition to the main academic conference, multiple satellite events centered around the security and big data theme will be organized as well.

We invite academic researchers in the field of Intelligence and Security Informatics and related areas as well as law enforcement and intelligence experts, and industry consultants and practitioners in the field to submit papers and workshop proposals.
ISI 2017 will be organized in four main tracks focusing on:

- Security Analytics and Threat Intelligence
- Data Science and Analytics in Security Informatics
- Human Behavior and Factors in the Security Applications
- Organizational, National, and International Issues in Counter-terrorism and other Security Applications

Submissions may include systems, methodology, test-bed, modeling, evaluation, and policy papers. Research should be relevant to informatics, organization, public policy, or human behavior in applications of counter-terrorism or protection of local/ national/ international security in the physical world and/or cyberspace. See specific topic suggestions below.

**TOPICS INCLUDE BUT ARE NOT LIMITED TO:**

**Security Analytics and Threat Intelligence**

- Threat pattern models and modeling tools
- Real-time situational awareness
- Intrusion and cybersecurity threat detection and analysis
- Cyber-physical-social system security and incident management
- Computing and networking infrastructure protection
- Crime analysis and prevention
- Forecasting threats and measuring the impact of threats
- Surveillance and intelligence through unconventional means
- Information security management standards
- Information systems security policies
- Mobile and cloud computing security
- Big data analytics for cybersecurity
- Resilient cyber infrastructure design and protection

**Data Science and Analytics in Security Informatics**

- Data representation and fusion for security informatics
- Criminal/intelligence information extraction
- Data sharing and information visualization for security informatics
- Web-based intelligence monitoring and analysis
- Spatial-temporal data analysis for crime analysis and security informatics
- Criminal/intelligence machine learning and data mining
- Bio-terrorism tracking, alerting, and analysis
- Digital forensics and computational criminology
- Financial and accounting fraud analysis
- Consumer-generated content and security-related social media analytics
• Security-related social network analysis (radicalization, recruitment, conducting operations)
• Authorship analysis and identification
• Terrorism related analytical methodologies and software tools

**Human Behavior and Factors in Security Applications**

• Behavior issues in information systems security
• HCI and user interfaces of relevance to intelligence and security
• Social impacts of crime and terrorism
• Board activism and influence
• Measuring the effectiveness of counter-terrorism campaigns
• Citizen education and training
• Understanding user behavior in that has potential security risks
• Security risks about user behavior in information systems
• Human behavior modeling, representation and prediction for security applications

**Organizational, National, and International Issues in Counter-terrorism and other Security Applications**

• Best practices in counter-terrorism or security protection
• Information sharing policy and governance
• Privacy, security, and civil liberties issues
• Emergency response and management
• Disaster prevention, detection, and management
• Protection of transportation and communications infrastructure
• Communication and decision support for research and rescue
• Assisting citizens’ responses to terrorism and catastrophic events
• Border security
• Accounting and IT auditing
• Corporate governance and monitoring
• Election fraud and political use and abuse

**SUBMISSION FORMAT AND PUBLICATION**

We accept three types of paper submissions on suggested topics of the proposed tracks and related topics: long paper (max. 6 pages), short paper (max. 3 pages), and poster (1 page). Submission format is PDF. Consult the IEEE publications page at

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

for information on formatting. Papers will be submitted through the EasyChair submission and review system. The submission Web page for IEEE ISI 2017:

The accepted papers from ISI 2017 and its affiliated workshops will be published by the IEEE Press in formal Proceedings. **IEEE ISI Proceedings are EI-indexed. Selected papers may also be considered for IEEE Intelligent Systems and ACM Transactions on Management Information Systems.**

**IMPORTANT DATES**

**Most submissions due:** April 10, 2017

April 25, 2017

**Acceptance:** May 30, 2017

**Camera ready copy:** June 20, 2017

**Authors register:** June 20, 2017

**Conference:** July 22-24, 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), 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. 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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Emerging Technologies for Maritime Risk Assessment: Opportunities, Challenges and Developments
by D. Zhang\textsuperscript{1,2} and J. Wang\textsuperscript{3}

\textsuperscript{1} Intelligent Transportation Systems Research Center, Wuhan University of Technology, China
\textsuperscript{2} National Engineering Research Center for Water Transport Safety, China
\textsuperscript{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 capsizing 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:

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

by Chaozhong WU$^{1,2}$ and Türker ÖZKAN$^3$

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

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 4th 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:

- Risk Awareness within the Advanced Vehicle Driving Assist Systems or Intelligent Vehicles
- Driver’s Cognitive to the Innovated Information within the Intelligent Transport Systems
- Safety Benefit for the advancement of Vehicle Technologies
- Drivers’ Attitude and Behavior towards Intelligent Vehicles
- Driving Behavior Study within the Big Data Environments
- Human-Machine Interface in Intelligent Transport Systems
- Driver Adaptation and Regulation in Emerging Technologies and/or ITS
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.
- 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.
Although in its early days, the Internet of Things (IoT) has started to make impacts in many business sectors including Intelligent Transportation Systems (ITS) and logistics. Availability of inexpensive sensors & communication, mobile computing, advanced & real time analytics and cloud services are redefining ITS and logistics. Connected and extended supply chain management has become one of the biggest trends. Utilization of IoT is redefining asset tracking, inventory and warehouse management in the logistics sector, as well as in manufacturing (e.g., Just In Time or Lean Manufacturing). A collaborative report by DHL and Cisco highlighted IoT best practices for operational efficiency, safety and security for logistics use cases including warehousing operations and freight transportation. In parallel, the automotive industry is undergoing a significant change to provide better road safety and co-operative mobility management while reducing the effect on environment. The current evolution is shifting the focus towards (i) supporting ITS via V2X communications, (ii) exposing vehicular resources for data collection, management, analytics, (iii) interoperability among vehicular gateway, cloud and consumer devices and (iv) consumer centric application and service design and development. These ongoing and future activities related to IoT in ITS and logistics pose research as well as engineering challenges. The workshop is inviting original research paper submission on the following topics.

1. IoT architecture for ITS and logistics applications
2. Upcoming communication technologies for IoT and their application in ITS
3. Information centric networking for IoT
4. Novel use cases for ITS and logistics and business policies
5. Integration of edge computing for ITS and logistics operations
6. Software framework and best practices for ITS and logistics application development
7. Advanced analytics and big data for ITS and logistics
8. Interoperability among vehicular resources, cloud and consumer devices
9. Platform to platform interoperability in IoT
10. Security, privacy and trust for ITS and logistics IoT applications
11. Consumer centric design and services for IoT in ITS and logistics

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)
- Nara Prefecture
- Society of Instrument and Control Engineers (SICE)

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K. Suzuki (Japan) K. Toyoda (Japan)
H. Tadjine (Germany) T. Wada (Japan)
H. Winner (Germany) K. Yi (Korea)
H. Yoshida (Japan)

Call for Papers

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 JSAE.

**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 registration fee:
- ¥60,000 until June 15, 2017.
- ¥70,000 after June 16, 2017.
- ¥35,000 students (No early discount)

Discount fees for accompanying persons are considered.

**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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**First Announcement and Call for Papers**

**FAST-zero ’17**

4th International Symposium on Future Active Safety Technology Toward zero traffic accidents

September 18 to 22, 2017
Nara, Japan
at Nara Kasugano International Forum

Deadline for Abstracts: November 25, 2016

URL: http://www.fast-zero17.info/
E-mail: fast-zero17@jtbcom.co.jp

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

In Association with

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**Correspondence**

All inquiries and proposals concerning the symposium should be addressed to FAST-zero’17 Secretariat:

E-mail: fast-zero17@jtbcom.co.jp
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 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: ieeeciv2018@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 will be subjected to the journal review process.

CONFERENCE ORGANIZING COMMITTEE

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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 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

2017 IEEE Intelligent Vehicles Symposium (IV’17)
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/

IEEE International Conference on Vehicular Electronics and Safety (ICVES 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/

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
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
Sydney, Australia
http://ieeevtce.org/vtc2017spring/

IEEE Multi-Conference on Systems and Control
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

**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 2017)**
Singapore
http://icra2017.org

**19th International Conference on Image Analysis and Processing (ICIAP 2017)**
September 13-15, 2017
Catania, Italy
http://www.iciap2017.com/
Vision based Front & Rear Surround Understanding using Embedded Processors
Ravi Kumar Satzoda ; Sean Lee ; Frankie Lu ; Mohan Manubhai Trivedi

Motion Estimation via Robust Decomposition with Constrained Rank
German Ros ; Jose M. Álvarez ; Julio Guerrero

RefineNet: Refining Object Detectors for Autonomous Driving
Rakesh Nattoji Rajaram ; Eshed Ohn-Bar ; Mohan Manubhai Trivedi

SPECIAL SECTION ON IV AND HUMAN FACTORS

Simultaneous Achievement of Workload Reduction and Skill Enhancement in Backward Parking by Haptic Guidance
Shintaro Tada ; Kohei Sonoda ; Takahiro Wada

Shared Control in Risk Predictive Braking Maneuver for Preventing Collisions with Pedestrians
Yuichi Saito ; Pongsathorn Raksincharoensak

An Exploratory Study of Driver Response to Reduced System Confidence Notifications in Automated Driving
Louis Tijerina ; Mike Blommer ; Reates Curry ; Radhakrishnan Swaminathan ; Dev S. Kochhar ; Walter Talamonti

Human Factors in the Design of Human-Machine Interaction: An Overview emphasizing V2X Communication
Cristina Olaverri-Monreal ; Tomas Jizba
Forthcoming papers on IEEE ITS Magazine

Special IV15 Section Papers

Probabilistic Threat Assessment with Environment Description and Rule-based Multi-traffic Prediction for Integrated Risk Management System

Scenario Model Predictive Control for Lane Change Assistance and Autonomous Driving on Highways

On-road Path Generation and Control for Waypoint Tracking

Dynamical Modeling and Distributed Control of Connected and Automated Vehicles: Challenges and Opportunities

Energy-efficiency Optimization of Torque Vectoring Control for Battery Electric Vehicles

Analysis of Feasible Tire Force Regions for Optimal Tire Force Allocation with Limited Actuation

Regular Papers

Impact of vehicle head geometric features in the propagation loss of ETC system

Citywide Estimation of Traffic Dynamics Via Sparse GPS Traces

Fast Branch Convolutional Neural Network For Traffic Sign Recognition

A Novel Approach for Traffic Signal Control: A Recommendation Perspective

Lane-based Saturation Degree Estimation for Signalized Intersections Using Travel Time Data
Most popular papers on IEEE Transactions on ITS

Yisheng Lv ; Yanjie Duan ; Wenwen Kang ; Zhengxi Li ; Fei-Yue Wang

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

3. Time-Optimal Maneuver Planning in Automatic Parallel Parking Using a Simultaneous Dynamic Optimization Approach
Bai Li ; Kexin Wang ; Zhijiang Shao

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

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

Most popular papers on IEEE ITS Magazine

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

2. Traffic coordination at road intersections: Autonomous decision-making algorithms using model-based heuristics
Gabriel Rodrigues de Campos ; Paolo Falcone ; Robert Hult ; Henk Wymeersch ; Jonas Sjöberg

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

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

5. Smart Parking Guidance, Monitoring and Reservations: A Review
Amir O. Kotb ; Yao-chun Shen ; Yi Huang

Most popular episode on IEEE ITS Podcast

ITS Podcast Episode 21: NOTICE. Traffic Incidents Reporting
Samy El-Tawab
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<td>Shunsuke Kamijo, The University of Tokyo, Japan</td>
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<td>Maryam Kaveshgar, National Technical University Of Ukraine, Ukraine</td>
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<tr>
<th>Committee Chairs</th>
<th>Brendan Morris</th>
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<tr>
<td>Standing Committee on Awards:</td>
<td>Meng Lu</td>
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<td>Standing Committee on Conferences and Meetings:</td>
<td>Azim Eskandarian</td>
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<td>Standing Committee on Constitution and Bylaws:</td>
<td>Bin Ning</td>
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<td>Fellow Evaluation Committee:</td>
<td>Alberto Broggi</td>
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<td>Standing Committee on Finance:</td>
<td>Úmit Özgüner</td>
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<td>ITSS History Committee:</td>
<td>Christoph Stiller</td>
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<td>Long-Range Planning Committee:</td>
<td>Brendan Morris</td>
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<td>Nominations and Appointments Committee:</td>
<td>Wei-Bin Zhang</td>
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<td>Yaobin Chen</td>
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<td>Javier Sanchez-Medina</td>
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<td>Standing Committee on Technical Activities:</td>
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