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From the Editor
Shunsuke Kamijo

Dear readers, we have the fourth issue of 2018 fully loaded with interesting information.

President of our society gives us the message “ITSS - Powered by a New Generation” in this issue. We have an introduction for ITS Society Educational Activities. In addition, we include the conference report of 2018 MESA in this issue.

We have a number of CFPs for IV, ITSC, and other ITS related conferences coming in 2018 and 2019. This issue also publishes the list of the forthcoming papers in ITS Magazine.

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!
Message from the IEEE ITS Society President

ITSS - Powered by a New Generation

On this occasion, I write my message while travelling back home from the IEEE Intelligent Vehicles Symposium held in Changshu, China. As usual, the IV symposium provides an excellent opportunity to discuss with colleagues and to enjoy the disrupting new ideas proposed by the authors of the more than 300 papers accepted in this conference. IV2018 has set a new record in terms of submissions, but also in terms of registrations (around 650). The interest raised by our conferences does not cease to grow, and more importantly, one can see how the mixture of generations takes place in one of our preferred events of the year. Senior researchers share their experience with the youngsters, while learning from them a great deal of new concepts and techniques. The exchange of experiences and ideas is most remarkable, as it should be. This is, no doubt, the path forward and the natural means to regenerate our society and our contribution to the ITS community at large. During the opening, Prof. Fei-Yue Wang, General Chair of IV2018, addressed a welcome speech to the participants, making clear his satisfaction for the new generations that are pushing our society forward in many different directions. After the deployment of energy and enthusiasm that I have witnessed during the conference, I can assure he is right.

Conferences are an excellent means to build a community, but not the only one. Currently, the ITS Society is deploying a new strategy in which the Technical Committees are playing a central role in most of our activities. We are regenerating and revitalizing our Technical Committees with a view to coordinating our efforts in a great deal of processes, such as the review of conference submissions, the organization of special issues or special sections in our periodicals and the organization of courses and summer schools, among others. Please, take your time to identify which Technical Committee might be of your interest and do not hesitate to join. Similarly, feel free to contact our VP for Technical Activities, Prof. Javier Sánchez-Medina, if you want to propose the creation of a new Technical Committee on a new topic in the field of ITS. The harmonization of different activities of the ITSS by means of the Technical Committees provides a solid means for enhancing our community on the grounds of technical cooperation. Another initiative we want to promote, very much in line with the previous one, is the creation of local chapters. The ITSS provides special financial support to local chapters in order to enhance their activities, being the Distinguished Lecturer Series (DLS) a key initiative.
that all local chapters should consider. If you are considering forming a new local chapter, please feel free to contact our VP for Membership, Prof. Brendan Morris, and share your ideas with him. Think how you can best contribute to the ITSS while enhancing your career at the same time. Let us continue to work together in order to enhance the technical grounds of our society.

By the way, the 2017 Journal Citation Report just got updated last summer. The Impact Factor of our two indexed periodicals is 4.05 (Transactions on ITS) and 3.09 (ITS-Magazine), respectively. Overall, we are in very good shape.

I look forward to meeting most of you at some of the ITSS-sponsored conferences and events in the coming year.

Sincerely,

Miguel Ángel Sotelo
President, IEEE Intelligent Transportation Systems Society
Online short courses in the ITS area
- Introduction to Intelligent Transportation Systems
- Introduction to Vehicular Robotic Modeling with V-REP
- Short Course in Predictive Analytics in ITS
- Autonomous Vehicles, Platooning and Traffic Flow Control for Connected Vehicles
- A primer on security and privacy in vehicular ad-hoc networks

Summer Schools
- IEEE ITSS Summer School on Cooperative Interacting Automobiles
- EEE ITSS Summer School on Frontiers in ITS: Transportation 5.0

ITS Keynotes
- The 2017 IEEE International Conference on Vehicular Electronics and Safety (IEEE ICVES 2017)

Support and Coordination of the IEEE ITSS Distinguished Lecture Series
- Support Request Proposal Form
The 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA2018) was held in northern Finland at the city of Oulu, at the hotel Radisson Blu, on July 2-4, 2018. The main organizer of the conference was VTT Technical Research Centre of Finland Ltd (VTT), assisted by the University of Oulu. The goal of the MESA2018 was to bring together experts from the fields of mechatronic and embedded systems, disseminate the recent advances in the area, discuss future research directions, and exchange application experience. The main achievement of MESA2018 was to 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 - 12% of the papers were IoT or Industry 4.0 related.

There were 75 participants in the conference from 17 countries (Canada, China, Finland, France, Hungary, Italy, Japan, New Zealand, Norway, Pakistan, Sweden, Singapore, Sri Lanka, Taiwan, Turkey, United Arab Emirates, USA). The technical program was organized in three plenary sessions and 60 papers in specific technical sessions in 10 tracks. The opening speech of the conference was given by Mr. Juha Alamursula, director of Business Oulu, City of Oulu, introducing the interests and approaches of City of Oulu towards applying and supporting development of high technologies. Two excellent keynote talks were given by two IEEE fellows, i.e. prof. Matti Pietikäinen from the University of Oulu (“Face Analysis for Emotional Interfaces”) and prof. Antonio Tzes from the New York University Abu Dhabi (“Cooperative Unmanned Aerial Systems for Area Coverage”). The presentations of technical papers were given in sessions in the following tracks: Artificial Intelligence and Emerging Technologies for Mechatronic and Embedded Systems, Sensors and Actuators, Mechatronics and Embedded Systems Applications, Mechatronics and Industry 4.0, Diagnosis and Monitoring in Mechatronic Systems, Robotics and Mobile Machines, Micro-/Nano-Manipulation Technologies and Applications, Mechatronic and Embedded Technologies in Intelligent Transportation Systems, Bio-Mechatronics - Medical Devices & Technologies, Mechatronic Control and Electrical Vehicular Systems. In addition, a technical tour was organized with visits to Nokia Oulu campus and VTT, Oulu site. The social activities were organized at the conference hotel, including a get-together event as a pre-conference event and a conference dinner.

Key persons in organizing MESA2018 were Dr. Tapio Heikkilä from VTT, Finland (General Chair), prof. George Nikolakopoulos from Luleå Technical University, Sweden (General co-chair), prof. Po Ting Lin from National Taiwan University of Science and Technology, Taiwan (Technical program chair), Dr Adriano Mancini from the Università Politecnica delle Marche, Italy (Publication chair), Dr. Toni Liedes from the University of Oulu, Finland (Local organizations chair) and prof. Zuomin Dong from the University of Victoria, Canada and prof. Emanuele Frontoni from the Università Politecnica delle Marche, Italy (Honors & Awards Committee Chairs).
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>
<thead>
<tr>
<th>Membership Type</th>
<th>Rate</th>
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<tbody>
<tr>
<td>IEEE Professional Member</td>
<td>US $35.00</td>
</tr>
<tr>
<td>IEEE Student Member</td>
<td>US $18.00</td>
</tr>
<tr>
<td>Society Affiliate</td>
<td>US $109.50</td>
</tr>
</tbody>
</table>

“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
Dear friends, hope you had a great summer vacation.

In this episode we have Prof. Bart Van Arem who has received the LEAD award of IEEE ITS as our special guest from TU Delft university. He will talk about intelligent vehicles and their impact on our lives also he will talk about his activities and his lab in TU Delft. As usual we are starting with a short news mini section then, Prof. Haluk Eren from Farat university Turkey will continue with a review of a book about transportation networks.


**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 Or just simply message us on any of our social media.

This podcast is sponsored by IEEE intelligent transportation system society.
Research Positions in Connected and Automated Vehicle Technology

The Transportation Systems Research (TSR) group in the College of Engineering – Center for Environmental Research & Technology at the University of California, Riverside, currently accepts applications for Ph.D. student, postdoctoral scholar, or research staff positions in the area of connected and automated vehicle (CAV) technology. The type of appointment and the level of compensation are negotiable, and will be commensurate with qualifications and experience. Highly self-motivated candidates who possess the required qualifications listed in this announcement are encouraged to apply. Candidates with direct research experience related to CAV technology, in both simulation and real-world settings, are highly encouraged.

The TSR group consists of a multidisciplinary team of more than 20 faculty members, graduate and undergraduate students, and staff engineers, with an annual research budget of over $2.5 million. We conduct research in the areas of advanced vehicles and intelligent transportation systems with a focus on developing and evaluating technologies that improve the efficiency of transportation activities. Several recent and current research projects involve the development of novel CAV applications, all the way from conceptualization to design, simulation, prototyping, and real-world demonstration.

The successful candidate will play an instrumental role in: designing and simulating new CAV applications for both passenger and freight vehicles; developing and implementing integrated vehicle dynamics and powertrain control strategies as well as intelligent energy management systems for advanced vehicles (e.g., plug-in hybrid electric vehicles); creating perception models of the driving environment through fusion of data from on-board sensors and V2X communications; and contributing to the group’s effort to expand the suite of CAV applications and to move them towards a greater level of automation.

**Required Qualifications:**
- Master’s degree in Automotive Engineering, Computer Engineering, Computer Science, Electrical Engineering, Mechanical Engineering, Systems Engineering or relevant fields (Ph.D. is required for postdoctoral scholar applicants)
- Research experience in connected and automated vehicle technology
- Strong programming skills in C/C++, C#, Matlab/Simulink, Python, and/or SQL
- Excellent written and verbal communication skills, along with the ability to work effectively and cooperatively in a team as well as independently
- Ability to multitask with strong time management skills

**Desired Qualifications:**
- Knowledge in optimization, machine learning, distributed and real-time systems, and/or cyber-physical and embedded systems
- Experience with CAN Bus programming and automotive sensors (e.g., radar, LiDAR)
- Experience with hardware setup and software implementation in automotive applications
- Strong publication record

Those interested should send their curriculum vitae and a cover letter to certjobs@cert.ucr.edu with the subject “CAV Research Position”. In the cover letter, please provide a statement of research interests and experience. Please also indicate the type of appointment (Ph.D. student, postdoctoral scholar, or research staff) that is being applied for.
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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Shunsuke Kamijo

Important Dates
Please check our website for the latest Important Dates: http://www.ieee-itsc2018.org

- Workshop and Tutorials Proposals: Februray, 15
- Regular Submissions Deadline: May, 01

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
Workshop Description

The second Workshop on "Cooperative and Automated Driving" will be held on November 4, 2018 in Hawaii, USA, in conjunction with the IEEE Intelligent Transportation Systems Conference (ITSC 2018 www.ieee-itsc2018.org/), one of the major annual conferences of the IEEE Intelligent Transportation Systems Society (ITSS). The Workshop targets connected, cooperative and autonomous technologies for C-ITS (Cooperative ITS) services and automated driving. Similar to last year, the workshop also features an Industry Panel with experts from related industries, which will again foster the interactive exchange of academia and industry.

Recent developments in telecommunications, sensor, information processing and control technologies have enabled substantial progress in the domain of ITS. C-ITS is in a very early stage of deployment, as it is technologically achievable, but the deployment requires cooperation of multiple stakeholders. Automated driving is on the horizon, and will still need substantial and longer-term development and testing to make even the high automation levels a reality in complex situations, such as in urban environments, and in a transition period of only partial market penetration. Cooperative and automated transport are certainly complementary. They are expected to bring substantial benefits in terms of safety, comfort and (traffic and fuel) efficiency. Many challenges exist in this important domain.

The workshop targets the challenges for (C-)ITS applications, especially connected and cooperative systems towards automated driving. Competing communication technologies (e.g. peer to peer (IEEE 802.11p), cellular network, and future 5G), sensor, information processing and control technologies will be highlighted. The impacts of C-ITS applications will be analysed. Requirements for strong cooperation between industry, authorities and academia in different regions will be addressed.

The workshop is expected to be very interactive. Participants will have an excellent opportunity to discuss with and to challenge distinguished speakers and panellists. The technical areas to be discussed include, but are not limited to the following:

- Connected and Automated Vehicles
- V2X communications
- C-ITS deployment
- Standardisation
- 5G research and testing
- Connected and cooperative systems
- Impacts evaluation of connected, cooperative and automated transport

Organiser
Meng Lu
Strategic Innovation Manager, Dynniq Nederland B.V., The Netherlands
VP, IEEE Intelligent Transportation Systems Society
Co-Chair, WG Industry Engagement, IEEE Future Networks Initiative

Moderator: Tim Leinmüller, Denso, Germany

Speakers/Panelists: OEMs, supplier, telecom, standardisation organisation, ICT infrastructure provider, academia

Contact
Email: meng dot lu at dynniq dot com
Phone: +31 6 4505 4735
TOWARDS A ZERO DOWNTIME RAIL TRANSPORTATION

Following the successes of past conferences held in Beijing (2013) and Birmingham (2016), the 2018 International Conference on Intelligent Rail Transportation (IEEE ICIRT 2018) will be held in Singapore. The Conference programme includes tutorials and workshops on 12 December and keynote and paper presentations on 13-14 December.

Globally, many cities are rapidly developing and expanding their rail infrastructures, and Reliability and Resiliency are key challenges in urban rail transportation. To address these challenges, the theme for ICIRT 2018 is “Towards a Zero Downtime Rail Transportation”. While zero downtime is not obtainable literally, it should not prelude us from striving to be so. ICIRT 2018 aims to provide a platform for all rail transportation engineers and researchers to share good design practices and R&D outcomes with the objective to work towards this goal. We invite submission of papers on the following topics related to intelligent rail transportation but not limited to:

- Traffic management and train control
- System modelling and simulation
- System optimisation
- Transportation planning and timetabling
- Condition monitoring
- Vehicle dynamics and control
- Capacity analysis
- Privacy and security
- System automation
- Non-destructive testing
- Data modelling and integration
- Communication technology
- Railway infrastructure
- Intelligent rail transport
- Energy modelling & management
- Human factors
- Failure analyses
- Digital rail systems
- Electromagnetic Compatibility

All accepted papers will be included in IEEE Xplore. Paper submission details can be found at https://www.ieee-icirt2018.com/paper-submission.

Important Dates:
- Paper Submissions: 29 June 2018
- Notification of Acceptance: 14 August 2018
- Final Paper Submissions: 23 October 2018

IEEE ICIRT 2018 Secretariat:
Jasmine Leong (Mrs)
121 Paya Lebar Way, #03-2801
Singapore 381121
Tel: +65 6743 2523 | Email: sec.singapore@ieee.org
Website: www.ieee-icirt2018.com
Call for Paper and Poster Submissions
The 13th IEEE International Conference on RFID (IEEE RFID 2019) is seeking high-quality submissions for papers (from 3 to max 8 pages) in all areas of technical RFID research. IEEE RFID 2019 is an opportunity to share, discuss, and witness research results in all areas of RFID technologies and their applications.

**Topic Areas**

- **Antennas & Propagation:**
  - antenna theory and designs
  - channel measurements and modeling
  - MIMO, UWB and hybrid RFID

- **Applications & Software:**
  - RFID software, middleware and networking
  - 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

- **Next-Gen Physical Layer:**
  - RFID-enabled devices
  - IoT/RFID system architectures
  - MIMO, hybrid and UWB RFID systems
  - networking and communication concepts

- **Energy Harvesting & Wireless Power:**
  - ambient RF harvesting
  - efficiency improvements
  - power-optimized waveforms
  - kinetic, thermal, optical, and other power-harvesting methods

- **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,
  - active, passive, or chipless RFID sensors,
  - RFID sensor modeling and analysis
  - new sensors for RFID

**Important Dates**

**Paper Submission Deadline:** Nov. 30th, 2018
**Notification of acceptance:** Jan. 23rd, 2019
**Final Paper Submission:** Feb. 12th, 2019


Authors of Accepted Papers receive peer reviews by top RFID technology leaders, get published on IEEE Xplore, and are enrolled in IEEE RFID 2019 Best Paper Competition.
Connected and Automated Vehicles (CAVs) are seen as game changers and key enabling technologies that considerably will shape our society and will influence future transportation modes and quality of life, altering the face of mobility as we experience it by today. By connecting and automating vehicles we are able to make our mobility safer, faster, cheaper, cleaner, and more enjoyable.

The 2019 IEEE ICCVE – International Conference on Connected Vehicles and Expo – held in Graz, Austria is the brand-new application-driven flagship conference of the IEEE Instrumentation and Measurement Society and is the world’s premier conference in that field to bridge the automated vehicle gap: Science and Technology, Consumer Trust, Homologation and Liability. Experts, researchers, practitioners, and policymakers from all around the world will present the latest innovations and advances on CAVs, share the experience and insights, forecast the trends and opportunities, and discuss the policy, economics and social implications.

IEEE ICCVE is proposed as a catalyst to promote interactions between industry and academia – a wide spectrum of academic research results will be presented, with potential practical applications in current industrial technology, as well as industry-driven developments.

The conference focuses on all aspects related to research, development, and applications of vehicle connectivity and autonomy. Topics of interest include, but are not limited to:

- Advances in Sensors, Signal Processing, Data Fusion, and Instrumentation of CAVs
- Sensor Simulation and Stimulation (Radar, Lidar, Camera, Ultrasonic, Infrared…)
- Active Perception Architectures and Implementations
- Vehicle Navigation and Situational Awareness
- Vehicle Control (adaptive, fuzzy, cooperative, neuro, emergent paradigms)
- Multi-vehicle Cooperation, Connected Vehicles, Platooning
- Fault-tolerant Algorithms and Fail-operational Architectures
- Real-time Computational Paradigms and Architectures
- Computational and Artificial Intelligence (AI)
- Dependable High Performance Computing (in-vehicle, cloud, fog)
- Cooperative Intelligent Transport Systems (C-ITS)
- Wireless Communications and Vehicular Networking
- Hybrid Simulation and Empirical Testing Paradigms (X-in-the-loop)
- Scenario-based Risk Assessment
- Active Safety and Vulnerable Road Users Protection
- Radical new CAV Concepts
- Virtual Homologation, Validation, and Test of AI-powered CAVs
- Safety Assurance, Cybersecurity, Reliability, Certification
- Applications from different Domains (Automotive, Offroad, Maritime, Avionics…)
- Shared Mobility: from Technology to Business
- Practices, Recommendations, and Standards in CAVs
- Policy, Economics, and Social Implications of CAVs

Many other new initiatives and opportunities to encourage your active participation in the conference are planned, and will make 2019 IEEE ICCVE a vibrant event to meet with people working in the field of connected and automated vehicles.

Visit the conference website as well as Facebook and LinkedIn pages for each specific call and additional news.
First Call for Papers
http://icmim-ieee.org

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Cicero S. Vaucher, NXP Semiconductors, The Netherlands
Ke Wu, Polytechnique Montréal, Canada
Thomas Zwick, Karlsruhe Institute of Technology, Germany

Important dates
PAPER SUBMISSION DEADLINE
December 10, 2018
ACCEPTANCE NOTIFICATION
February 4, 2019
EARLY BIRD REGISTRATION DEADLINE
February 18, 2019
CONFERENCE DATE
April 15-17, 2019

2019 International Conference on Microwaves for Intelligent Mobility, ICMIM2019

15-17 April 2019, Detroit, MI, USA

About the conference
The 5th annual IEEE International Conference on Microwaves for Intelligent Mobility will be held in Detroit, MI, USA. The conference covers all key enabling technologies for intelligent mobility, including components, circuits, and systems. Potential applications address automated land, sea, and airborne vehicles, automotive radar and other sensing techniques, navigation and localization, mobile communications, driver assistance, and over-the-air testing.

ICMIM 2019 invites submission of original papers on all topics related to the scope of the conference, including but not limited to:
- Microwave components, MMIC, and packaging
- Frontends and frontend modules
- Design and testing of antennas, arrays, and MIMO systems
- Automotive radar systems, modulation and waveforms
- Wave propagation, channel measurements, channel modeling
- Analogue RF and digital signal processing, sensor data fusion
- Interference and coexistence issues

in these and related fields of applications:
- RF for intelligent transport systems and other industrial applications
- Unmanned vehicles (land, sea, airborne)
- Automotive radar
- Mobile communications (e.g., ITS-G5/DSRC, C-V2X, LTE, 5G)
- Sensing and imaging techniques and systems (passive, active)
- Wireless localization and navigation
- Environmental detection
- System measurements, performance evaluation, test and validation

Conference Organization
The conference contributions will be arranged as regular oral or interactive poster presentations in up to two parallel tracks. Internationally renowned keynote and invited speakers from industry and academia will highlight the state-of-art in key areas of ICMIM. The conference also plans to include an industrial exhibition, topical workshops, and best paper awards.

Paper Submission
Paper submission instructions will be provided on the website (http://icmim-ieee.org). Submissions undergo thorough review and will be evaluated in terms of novelty, practical relevance, originality, interest to the community, and clarity.

All accepted papers will be published in IEEE Xplore. Selected contributions may be eligible for publication in special issues of the IEEE Transactions on Microwave Theory and Techniques (T-MTT) or the IEEE Transactions on Intelligent Vehicles (T-IV).
Call for paper

Scope
The 2019 IEEE Intelligent Vehicles Symposium (IV’19) is a premier annual technical forum sponsored by the IEEE Intelligent Transportation Systems Society (ITSS). It brings together researchers and practitioners from universities, industry, and government agencies worldwide to share and discuss the latest advances in theory and technology related to intelligent vehicles. Papers concerning all aspects of intelligent vehicles as well as proposals for workshops and special sessions are invited for IV’19. Additionally, related technical Demonstrations and Exhibitions are welcome.

Committees
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Program Chair
Prof. Brendan Morris, University of Nevada, Las Vegas, USA

Program Co-Chair
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Prof. Fernando Garcia, Universidad Carlos III de Madrid, Spain

Workshops Chairs
Prof. Jonas Sjöberg, Chalmers University, Sweden
Prof. Jack Hadad, Technion, Israel

Topics
Authors are invited to submit papers that fall into the area of intelligent vehicles. The topics of interest include but are not limited to the following.

- Advanced driver assistance systems
- Advanced sensing and recognition
- Artificial intelligence
- Automated vehicles
- Connected vehicles
- Cognition and Control
- Driver monitoring
- Human factors
- Intelligent electrified vehicles
- Navigation and localization systems
- Policies and regulations for intelligent vehicles
- Vehicle dynamics and control
- Vehicle hardware/software systems
- Vehicle on-board diagnostics
- Vehicular signal processing

Paper submission
Prospective authors are required to submit their manuscripts electrically through the conference website: http://iv2019.org/. All presented papers will be published by the IEEE and the conference proceedings will be submitted to the IEEE Xplore® digital library. High quality papers will be recommended for consideration for special issues in the IEEE Intelligent Transportation Systems Magazine and/or IEEE Transactions on Intelligent Vehicles. Authors will be asked to revise their papers according to the journal standards, which are subject to the journal review process.

Important Dates
Proposal for special sessions/workshops
November 19, 2018
Submission Deadline
January 21, 2019
Notification Deadline
March 29, 2019
Camera-ready Deadline
April 22, 2019

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Website
http://iv2019.org/
Email
contact@iv2019.org

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**INTELLIGENT VEHICLE SYMPOSIUM 2019 TUTORIALS AND WORKSHOPS**
**CALL FOR WORKSHOP AND TUTORIAL PROPOSALS**
2019 IEEE Intelligent Vehicles Symposium, IV’19  
June 9-12, 2019, Paris, France  
http://www.iv2019.org

**SUBMISSION DEADLINE:** November 19, 2018

Besides the main technical program, IV’19 will offer workshops and tutorials on topics related to the general theme of the conference. The role of the workshops is to provide a setting for focused, intensive scientific exchange among researchers and practitioners interested in a specific topic. The idea with a tutorial is be more of an introduction and overview of a field, built up with lectures, and possible exercises. Workshops are the primary venues for the exploration of emerging ideas as well as for the discussion of novel aspects of relevant research topics. Tutorials, on the other hand, are more like a mini-course on established techniques/topics.

The workshops and tutorials will take place the first day, the 9th of June at MINES ParisTech, France.

You are invited to submit a proposal for a workshop or a tutorial on a research topic of interest to IV attendees.

**SET-UP**

A workshop should consist of a number of presentations of accepted papers and, possibly, invited talks without paper submission. An often good outline, is to have one, or a couple, of longer overview talks to give an overview of the workshop topic, followed by shorter talks, or a poster session, based on submitted papers. The submitted papers should be based on original research, work under development and experiments relating to the workshop topic.

A tutorial typically consists of lectures and, possibly, other activities such as exercises. It can be a first introduction into a topic, assuming no prior knowledge, or it can be more advanced.

**Submission Guidelines**

Submit your proposal by sending an Email to the workshop chair, see bellow. All submissions should be in English as a single PDF file no longer than 4 (four) pages containing the following sections:

- Title and Acronym
- Workshop or tutorial
- First time, or is this a workshop in a series? If new, motivate why it will attract an audience. If another one in a series, how many participants did you have last time? Will you change the set-up this time?
- Abstract: 200 word summary of the workshop purpose.
- Topics: What topics of interest will be covered by the workshop? keywords.
Workshop format: The intended mix of events, such as paper presentations, invited talks, panels, contributed papers as talks or as posters.

For tutorials: who should attend? describe expected prior knowledge required. Give learning outcome.

Chair(s): Name, affiliation, email address, homepage and short (one paragraph) biography of each chair, explaining the chair’s expertise in the workshop topic and experience in organising relevant events. (recommended between 2 and 5 chairs).

Proposed Length: Half-day or full-day?

Accepted workshops are encouraged to prepare a workshop web page containing their call for papers and detailed information about the workshop organisation. Workshop papers are submitted in the same way as conference papers, but with a slightly later deadline. For quality reasons, the workshop papers are reviewed under the same procedure as the conference papers and they will also be published in the proceeding together with the conference papers.

IV’19 local chairs will assist with the local organisation of the workshop, the workshop organisers will be responsible for publicity of their workshop.

For those contributing in the workshops and tutorials the following rules applies for the registration.

- Invited speakers do not submit any paper. They have free registration to the workshop day but not to the rest of the conference.
- Organizers have free registration to the workshop day but not to the rest of the conference.
- Authors of accepted workshop papers will have their paper published in the conference proceeding. At least one author needs to be registered for the workshop and the conference.
- Tutorial organizers have free registration to the tutorial day but not to the conference.

IMPORTANT DATES

- Tutorial /workshop proposal deadline: November 19, 2018
- Notification of tutorial/workshop acceptance: November 25, 2018 (possible earlier for those who submit earlier than the deadline)
- Workshop paper submission: February 4th, 2019
- Notification of workshop paper acceptance: March 29, 2019
- Final Workshop paper submission: April 22, 2019

Workshop Chairs

Jonas Sjöberg, Chalmers University, Sweden, jonas.sjoberg@chalmers.se
Jack Haddad, Technion, Israel, jh@technion.ac.il
Smart Mobility, Empowering Cities

26th World Congress on Intelligent Transport Systems 2019
Suntec Singapore Convention and Exhibition Centre, Singapore

- 10,000+ participants
- 300+ exhibitors
- 5 days of programme
- 20+ technical tours and demonstrations

Congress Programme Themes

- Intelligent, Connected & Automated Vehicles
- Crowdsourcing & Big Data Analytics
- Cybersecurity & Data Privacy
- Multimodal Transport of People & Goods
- Policies, Standards & Harmonisation
- Safety for Drivers & Vulnerable Users
- Innovative Pricing & Travel Demand Management
- Sustainable Smart Cities

5 Ways to Get Involved

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2. Become an Exhibitor
   Stand sales Now Open

3. Present a Paper
   Technical | Scientific | Commercial
   Applications open 1 October 2018

4. Demonstrate your ITS Solutions
   Please email info@itsworldcongress2019.com to find out more

5. Register as a Delegate
   Registration opens April 2019

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Who should attend?

By job titles
- Academics
- Advisors/Consultants
- Analysts
- Board Executives
- Business Development
- Chief Executive Officers
- Chief Operations Officers
- Chief Technology Officers
- Commercial Vehicle Operators
- Data Scientists
- Engineers
- Fleet Managers
- General Managers

By industry sectors
- Application developers
- Automation
- Automotive manufacturers
- Aviation, rail and sea-ports
- Civil contractors
- Consulting firms
- Cybersecurity
- Emergency and disaster services
- Finance
- Freight
- Infrastructure contractors
- Insurance companies
- Local government
- Municipalities and state agencies
- Public transport
- Regulatory authorities
- Road safety professionals
- Shipping
- Spatial industry
- Start-up community
- System integrators
- Taxi industry
- Technology start-ups
- Telecommunications
- Telematics and autonomous systems
- Toll road operators

Expected breakdown of delegates

by geography (%)
- Europe (59%)
- Asia (17%)
- Middle East (1%)
- North America (8%)
- Australia & New Zealand (12%)
- Rest of the world (3%)

Examine the wider Smart City ecosystem
- Energy
- Infrastructure
- Security

Expand beyond the traditional ITS
- Crowdsourcing
- Safety systems
- Satellite-assisted mobility

Contact the 2019 ITS World Congress Secretariat at
info@itsworldcongress2019.com (General and Registration Enquiries)
spex.sales@itsworldcongress2019.com (Sponsorship and Exhibition)

www.itsworldcongress2019.com
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)
Conference Calendar

IEEE Intelligent Transportation Systems Society’s Sponsored Conferences

- **2018 IEEE Intelligent Vehicles Symposium (IV’18)**
  
  *Changshu, Suzhou, China*
  

- **IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA 2018)**
  
  *Oulu, Finland*
  

  
  *Quebec City, Canada*
  
  [https://www.asme.org/events/idetccie](https://www.asme.org/events/idetccie)

- **IEEE 21st IEEE International Conference on Intelligent Transportation Systems (ITSC 2018)**
  
  *November 4-7, 2018*
  
  *Maui, Hawaii, USA*
  

- **IEEE International Conference on Vehicular Electronics and Safety (ICVES 2018)**
  
  *Madrid, Spain*
  

- **IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2018)**
  
  *Furama RiverFront, Singapore*
  

- **IEEE Forum on Integrated and Sustainable Transportation Systems**
  
  *Beijing, China*
  
  [https://www.ieee-itss.org/fists](https://www.ieee-itss.org/fists)

*Submission due for the next event: To be determined*
- **The 4th International Conference on Universal Village (UV2018)**
  October 23-24, 2018
  Boston, USA

- **7th International Conference on Advanced Logistics and Transport (ICALT)**
  December 9-12, 2018
  ÉTS, Montreal, Canada

- **2018 IEEE International Conference on Intelligent Rail Transportation (IEEE ICIRT 2018)**
  December 12-14, 2018
  Marina Bay Sands, Singapore

- **IEEE Intelligent Conference on Intelligence and Security Informatics (ISI)**
  November 9-11, 2018
  Miami, Florida, USA

- **IEEE Vehicular Networking Conference (VNC)**
  December 5-7, 2018
  Taipei, Taiwan

### Other Conferences

- **SAE Battelle CyberAuto Challenge**
  Detroit, Michigan, USA
  [http://www.sae.org/events/cyberauto/](http://www.sae.org/events/cyberauto/)

- **The 23rd International Symposium on Transportation and Traffic Theory (ISTTT23)**
  Lausanne, Switzerland
  [https://isttt23.sciencesconf.org/](https://isttt23.sciencesconf.org/)

- **NRITS National Rural ITS Conference**
  Fort McDowell, Arizona, USA
  October 21-24, 2018

- **IEEE 87th Vehicular Technology Conference: VTC2018-Spring**
  Porto, Portugal
IEEE Multi-Conference on Systems and Control
http://msc2016.ieeecss.org/
Submission due for the next event: To be determined

October 1-5, 2018
Madrid, Spain
https://www.iros2018.org/

ITS World Congress 2018
September 17-21, 2018
Copenhagen, Denmark
https://itsworldcongress.com/

Seminars and Dagstuhl Perspectives Workshops 2018
https://www.dagstuhl.de/en/program/calendar/

February 25-27, 2019
Prague, Czech Republic
http://www.visigapp.org
Submission due by: October 1, 2018

International Conference on Connected Vehicles & Expo (ICCVE)
November 4-8, 2019
Graz, Austria
http://www.iccve2019.com/
Submission due: To be determined

Intertraffic Amsterdam 2020
April 21-24, 2020
Amsterdam, Netherlands
http://www.intertraffic.com/amsterdam/

WCX18: SAE World Congress Experience
April 9-11, 2019
Detroit, Michigan, USA
http://wcx18.org/

5th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2019)
May 3-5, 2019
Crete, Greece
http://www.vehits.org/
Submission due: December 10, 2018
- IEEE International Conference on Robotics and Automation (ICRA 2018)
  Brisbane, Australia
  http://icra2018.org/

- International Conference on Image Analysis and Processing
  http://www.iciap2017.com/
  Submission due for the next event: To be determined
Forthcoming papers on IEEE ITS Magazine

Special Issue on “2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES’17)”

Special Issue Editorial:
Cristina Olaverri-Monreal
Javier Sanchez-Medina2
Fernando García-Fernández3

FEATURES

ITSM-17-12-0134.R1
Prospective and Monetary Effectiveness Assessment Method for Advanced Driver Assistance Systems – Usage of Naturalistic Driving Studies and Experimental System Tests
Philip Feig, Julian Schatz, Klaus Gschwendtner, Markus Lienkamp

ITSM-18-01-0020.R1
Examining the impact on road safety of different penetration rates of vehicle-to-vehicle communication and adaptive cruise control
Aso Validi, Thomas Ludwig, Ahmed Hussein and Cristina Olaverri-Monreal

ITSM-18-01-0019.R1
Virtual Vehicle-Based Cooperative Maneuver Planning for Connected Automated Vehicles at Single-Lane Roundabouts
Ezequiel Debada and Denis Gillet

ITSM-18-01-0005.R2
Intersection Warning System for Occlusion Risks using Relational Local Dynamic Maps
Florian Damerow, Tim Puphal, Benedict Flade, Yuda Li and Julian Eggert

ITSM-17-12-0136.R1
Tracking Objects with Severe Occlusion by Adaptive Part Filter Modeling - In Traffic Scenes and Beyond
Wei Tian and Martin Lauer

ITSM-18-01-0011.R1
Fast Joint Object Detection and Viewpoint Estimation for Traffic Scene Understanding
Carlos Guindel, David Martin Member and Jose Maria Armingol

ITSM-18-01-0015.R2
An Instance-Specific Parameter Tuning Approach using Fuzzy Logic for a Post-Processing Topological Map-Matching Algorithm
Carola Alejandra Blazquez, Jana Ries, Pablo Andres Miranda, and Roberto León
Most popular papers on IEEE Transactions on ITS

1. **Wheel Defect Detection With Machine Learning**
G. Krummenacher ; C. Soon Ong ; S. Koller ; S. Kobayashi ; J. M. Buhmann

2. **Traffic Flow Prediction With Big Data: A Deep Learning Approach**
Y. Lv ; Y. Duan ; W. Kang ; Z. Li ; F. Yue Wang

J. E. Siegel ; D. Erb ; S. E. Sarma

V. J. Hodge ; S. O'Keefe ; M. Weeks ; A. Moulds

5. **A Review of Motion Planning Techniques for Automated Vehicles**
D. González ; J. Pérez ; V. Milanés ; F. Nashashibi

Most popular papers on IEEE ITS Magazine

1. **A Tutorial on Graph-Based SLAM**
G. Grisetti ; R. Kummerle ; C. Stachniss ; W. Burgard

2. **Making Bertha Drive—An Autonomous Journey on a Historic Route**
J. Ziegler ; P. Bender ; M. Schreiber ; H. Lategahn ; T. Strauss ; C. Stiller ; T. Strauss ; E. Kaus ; R. Herrtwich ; C. Rabe ; D. Pfeiffer ; F. Lindner ; F. Stein ; F. Erbs ; M. Enzweiler ; C. Knoppel ; J. Hippi ; M. Haueis ; M. Trepte ; C. Brenk ; A. Tamke ; M. Ghanaat ; M. Braun ; A. Joos ; H. Fritz ; H. Mock ; M. Hein ; E. Zeeb

3. **Generative Adversarial Networks for Parallel Transportation Systems**
Y. Lv ; Y. Chen ; L. Li ; F. Yue Wang

4. **Autonomous Vehicle Safety: An Interdisciplinary Challenge**
P. Koopman ; M. Wagner

5. **Three Decades of Driver Assistance Systems: Review and Future Perspectives**
K. Bengler ; K. Dietmayer ; B. Farber ; M. Maurer ; C. Stiller ; H. Winner

Most popular episode on IEEE ITS Podcast in 2017

**ITS Podcast Episode 38: Vision-Based Turning Movement Monitoring**
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**INTELLIGENT TRANSPORTATION SYSTEMS**

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