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Editorial Board

Editor
Shunsuke Kamijo…….kamijo@iis.u-tokyo.ac.jp

Associate Editors
Tetsuya Manabe
................................manabe@hslab.ees.saitama-u.ac.jp
Yanlei Gu
..................................guyanlei@fc.ritsumei.ac.jp

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

From the Editor
Shunsuke Kamijo

Dear readers, we have the third issue of 2019 fully loaded with interesting information.

President of our society gives us the message “ITSS and Open Access Publications” in this issue. We have an introduction for the ITS Society Educational Activities. ITS Society Educational Activities include ITSS courses, and summer school.

We have a number of CFPs for ITSC, ICVES and other ITS related conferences coming in 2019. This issue also publishes the list of the forthcoming papers in Transaction on IV and ITS Magazine.
ITSS and Open Access Publications

Every time I have the opportunity to address the ITSS community, I try to convey a clear message, easy to understand and remember. In this case, I would like to draw your attention to the Open Access wave that is flooding the entire scientific community worldwide. The wave started in Europe, propelled by the European Commission under the so-called “Plan S”. Most European research funding agencies have already stuck to this plan, urging researchers to publish their research results in Gold Open Access journals alone. It remains to be seen whether or not other countries like USA or Japan will follow this path, but it seems that Open Access mandates are surging everywhere. This matter is of the utmost interest to IEEE, given its potential financial impact. However, it is also a fantastic opportunity for IEEE to take a leading role in fundamentally transforming the current collective approach to scholarly publications online. The window of opportunity is small because the open access world has been growing exponentially over the past decade and new approaches have been recently tested. In the meantime, IEEE is transforming their operations and business plan with a view to adapt to the new scenario. In this framework, the ITSS is making plans for starting a new Open Access Journal covering Intelligent Transportation and Mobility topics. The new publication is expected to complement the already existing hybrid ITSS journals, such as the IEEE Intelligent Transportation Systems Magazine, offering the ITS community a full plethora of options for their research results. I will keep you updated about the latest developments on this matter.

This year, the ITSS has participated in the general review that the IEEE Society and Council Review Committee (SCRC) carries out periodically (every five years). The work performed to complete the review report has made us reflect about our strategic and operational plans. No doubt, a general review of this type is an opportunity for self-analysis and improvement. As a result of that, we are planning to streamline our operations in the coming months. I hope all ITSS members can benefit from the improvements that the ITSS will implement as a consequence of the 2019 IEEE review.

Let me remind you that the ITSS is constantly seeking support from their members in order to contribute to different activities and initiatives. In this regard, we are looking for ITSS colleagues willing to serve as representatives of our society in different IEEE committees, Associate Editors of our conferences and periodicals, etc. If you think you can contribute to the ITSS somehow, just let us know and we will do our best to find the perfect fit for you.
I hope we can meet in the next great event sponsored by the ITS Society, the IEEE Intelligent Transportation Systems Conference 2019 that will be held in Auckland, New Zealand (October 27-30, 2019). Let’s meet Down Under and share experiences, ideas, and our prospects for the future of Intelligent Transportation.

Sincerely,

Miguel Ángel Sotelo
President, IEEE Intelligent Transportation Systems Society
Enroll now!

Courses

ITSS Courses
- Simulation-based Dynamic Traffic Assignment
- 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

ITSS Summer Schools
- IEEE ITSS Summer School on Cooperative Interactive Vehicles (Sep 2018)
- IEEE ITSS Summer School on Cooperative Interacting Automobiles (Sep 2017)
- IEEE ITSS Summer School - Qingdao, China (Jul 2016)

ITSS Keynotes
- IEEE ICVES 2018
- IEEE ICVES 2017

NEW Job Offers section!

Educational Activities ITSS
https://edu-ieee-itss.org

The IEEE Intelligent Transportation Systems Society (IEEE ITSS) Educational Activities Board (EAB) fosters programs for the growth of the ITSS educational related activities, recommending policies for educational development coordinating the Distinguished Lecture Series of the society and approving plans for educational support activities. We aim at serving the IEEE ITS members in educational pursuits supporting them with high-quality opportunities for education on the topic, providing them with information to understand prospects and career-paths in ITS.

ITS Courses
To expand the ITS society’s offerings and opportunities in future industries of relevance, it is a pleasure to present the following courses that cover specific topics of interest in the ITS area. We hope that you will find them interesting and useful to gain valuable and meaningful skills in intelligent transportation systems.

ITS Keynotes
We present a selection of several keynote speeches that have been selected from IEEE ITSS conferences.

How can I enroll in a course?
Register freely with IEEE membership ID on this site and follow us on the social media accounts where the available courses will be announced.

Courses
- ITSS Courses
- ITSS Summer Schools
- ITSS Keynotes

Log in

Username / email
Password
Remember username
Log in
Create new account
Lost password?

Search courses: Go

NEWSLETTER SUBSCRIPTION
Please subscribe to our activities newsletter!
Dear Subscribers,
I welcome you to our May episode in 2019.
We will start the episode news minisection about the advances in ITS and autonomous driving. Also we have a review on a book about Road Pricing: Technologies, economics and acceptability, edited John Walker.
I hope you enjoy.

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.
Call for Papers

The 2019 annual flagship conference of the IEEE Intelligent Transportation Systems Society will be held in Auckland, New Zealand. This conference welcomes papers and presentations in the field of Intelligent Transportation Systems, dealing with new developments in theory, analysis, simulation and modelling, experimentation, demonstration, case studies, field operational tests and deployments. ITSC 2019 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. All presented papers will be published by the IEEE and included in IEEE Xplore.

Important Dates
Please check ITSC 2019 website for the Important Date updates.

- Special Session Proposals: 31 Jan 2019
- Special Session Papers: 31 March 2019
- Regular Papers: 31 March 2019
- Workshop & Tutorial Proposals: 31 March 2019
- Panel Session Proposals: 30 April 2019
- Acceptance Notification (all types): 30 June 2019
- Early Bird Registration: 10 July 2019
- Final Paper Submission (all types): 15 July 2019
- Workshops & Tutorials: 27 October 2019
- Conference: 28 – 30 October 2019

Journal and Magazine Publication of Selected Papers

Selected papers of exceptional quality will be invited for submission to special issues of the IEEE Transactions on ITS, or the IEEE Transactions on Intelligent Vehicles or the IEEE ITS Magazine. Authors will be asked to revise their papers in line with the IEEE Publication Policy.

Topics - The technical areas include but are not limited to:

- Air, Road, Rail and Waterways Transportation Network and Systems
- Big Data and Naturalistic Datasets
- Co-operative Intelligent Transportation Systems (C-ITS)
- Deep Learning
- Emergency Management
- Field Trials, Tests and Deployment
- Fleet Management
- Human Factors and Travel Behaviour
- Intelligent Vehicles
- Interconnected Vehicles and Transportation Systems
- Interoperable Multi-modal Transportation Networks and Systems
- Logistics
- Modelling, Control and Simulation Algorithms and Techniques
- Management of Exceptional Events: Incidents and Evacuation
- Multimodal Transportation Networks and Systems
- Products & Services
- Security, Privacy and Safety Systems
- Sensors, Detectors and Actuators
- Smart Mobility
- Traffic Control and Management
26th World Congress on Intelligent Transport Systems 2019
Suntec Singapore Convention and Exhibition Centre, Singapore

Enjoy the Singapore Experience!

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

Smart Mobility, Empowering Cities

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

To find out more about Singapore, visit www.visitsingapore.com

www.itsworldcongress2019.com
Why should you attend?
- Perspective you get on local market
- Opportunity to present
- Find new collaboration partners
- Strong business development opportunities
- Cross-sector business networking
- Examine the wider Smart City ecosystem
  - Energy
  - Infrastructure
  - Security
- Expand beyond the traditional ITS
  - Crowdsourcing
  - Safety systems
  - Satellite-assisted mobility

Who should attend?
**By job titles**
- Academics
- Advisors/Consultants
- Analysts
- Board Executives
- Business Development
- Chairpersons
- Chief Executive Officers
- Chief Operations Officers
- Chief Technology Officers
- Commercial Vehicle Operators
- Data Scientists
- Directors
- Engineers
- Executives
- Fleet Managers
- General Managers
- Government Officials
- Heads/Chiefs of Department
- Infrastructure Operators
- Managers
- National Associations
- Public Authorities
- Research Professionals
- Researchers
- Sales and Marketing

**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
- 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**

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

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

www.itsworldcongress2019.com
The 2019 IEEE 2nd 5G World Forum (5GWF’19) in Dresden, Germany, seeks contributions on how to nurture and cultivate 5G technologies and applications for the benefit of society. 5G systems should unveil a novel mobile network architecture that not only improves physical data rate, but also creates a new ecosystem allowing the deployment of novel services and applications. A key target is to build a novel network architecture that should support not only classical mobile broadband applications and services but also vertical industry (e.g. Intelligent Transport, Industrial IoTs, eHealth, etc.) and other 5G-based services.

This conference aims to bring experts from industry, academia and research to exchange their vision as well as their achieved advances towards 5G, and encourage innovative cross-domain studies, research, early deployment and large-scale pilot showcases that address the challenges of 5G.

Organizing Committee

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Essaid Sabir, University of Casablanca

Important Dates:
April 15, 2019 May 24, 2019:
Technical papers
Industry Forum proposals
Tutorials proposals
Vertical/Topical Area proposals
May 15, 2019 May 31, 2019:
Workshop papers

Visit http://ieee-wf-5g.org/ for more information.
Call for Papers

The 5th International Conference on Transportation Information and Safety (ICTIS 2019)

14 -17 July 2019 | Liverpool Marriott Hotel City Centre

Conference Spotlight Theme: Sustainable, Smart and Safe Transport

Sponsored by:
China Communications and Transportation Association
American Society of Civil Engineers
Canadian Society for Civil Engineering
IEEE Intelligent Transportation Systems Society

Co-organized by:
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Collaborative Innovation Platform for Smart River, MOT (China)
CY TUNG, International Centre for Maritime Studies (China)
ABOUT ICTIS

International Conference on Transportation Information and Safety (ICTIS) was initiated and sponsored by China Communications and Transportation Association (CCTA), American Society of Civil Engineers (ASCE) and Canadian Society for Civil Engineering (CSCE) in 2011 and aims at improving the efficiency, safety, reliability and environment friendly of transport systems. ICTIS is held every two years by Wuhan University of Technology (WUT) and has been successfully held in 2011, 2013, 2015 in Wuhan, China and in 2017 in Banff, Canada, respectively. More information about the history of ICTIS can be found at http://ictis.whut.edu.cn/. Over the last four conferences, their proceedings have accepted 1054 papers, and all of the accepted papers have been published indexed by EI. Excellent papers have been published or recommended for publication in International Journals: Journal of Civil Engineering, Journal of Transportation Engineering, Journal of Intelligent and Connected Vehicles, etc. The ICTIS conferences have inspired many interesting research exchanges and discussions and more and more universities and organizations working in the fields of road, waterway, railway and air transportation and related disciplines are joining the conferences of ICTIS.

The forthcoming 5th ICTIS will be held during July 14-17, 2019, Liverpool, UK. For more details about ICTIS 2019 conference, please visit the ICTIS 2019 website at http://ictis.whut.edu.cn/. Please contact ICTIS 2019 secretary by Email: ictis@whut.edu.cn if you have any suggestions or questions.

PAPER SUBMISSION AND REVIEW

The working language of the conference is English. Authors are invited to submit abstracts and full papers in English (https://cmt3.research.microsoft.com/ICTIS2019). 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 https://www.ieee.org/content/dam/ieee-org/ieee/web/org/conferences/Conference-template-A4.doc). The authors must ensure the submitted abstracts and papers are original and unpublished. Plagiarisms and intellectual property disputes will not be tolerated in ICTIS 2019. Submitted abstracts and full papers will be reviewed by experts in the relevant fields.

PAPER PUBLICATION

The accepted papers will be published by the Institute of Electrical and Electronics Engineers (IEEE) and will be indexed by Engineering Index (EI). Furthermore, selected papers from this conference will be recommended for publishing in SCI or SSCI Journals such as Canadian Journal of Civil Engineering, Journal of Transportation Engineering.

IMPORTANT DATES

Deadline for Submission of Abstracts (Extended) November 1, 2018
Notification of Accepted Abstracts November 30, 2018
Deadline for Submission of Full Papers (Extended) January 31, 2019
Notification of Accepted Full Papers March 15, 2019
Deadline for Submission of the Revised Version April 30, 2019
Conference July 14-17, 2019
SPECIAL SESSIONS

ICTIS 2019 will collaborate with top institutions around the globe to organize the following special sessions:

- **Behavioural Maritime Safety**
  *Dr. LU, Chin-Shan*, Professor, Hong Kong Polytechnic University, Hong Kong SAR, China.
  *Dr. YIP, TSZ Leung*, Associate Professor, Hong Kong Polytechnic University, Hong Kong SAR, China.

- **Reliability and Safety Engineering and Technology for large maritime engineering systems**
  *Dr. WANG, Jin*, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.

**CONFERENCES SESSIONS**

ICTIS 2019 will facilitate in-depth discussions about infrastructure, data collection, processing and applications of technologies and at the same time, promote exchanges related to the theory, analyzing methods and risk preventive measures for **Sustainable, Smart and Safe Transport**.

- **Intelligent Transportation Systems (ITS)**
  **Session Chair**: *Dr. YUAN, Quan*, Associate Professor, Tsinghua University, China.

- **Autonomous and Connected Vehicles**
  **Session Chair**: *Dr. TIAN, Daxin*, Professor, Beihang University, China.

- **Autonomous Surface Ships**
  **Session Chair**: *Dr. LIU, Jialun*, Associate Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

- **Land Use and Transportation Planning**
  **Session Chairs**: *Dr. HUNT, John*, Professor, University of Calgary, Canada.
  *Dr. ZHONG, Ming*, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

- **Traffic Control Theories and Methods**
  **Session Chair**: *Dr. MA, Wanjing*, Associate Professor, Center for Transport Studies, Imperial College London, UK.
  *Dr. MA, Jian*, Professor, College of Transportation Engineering, Tongji University, China.

- **Traffic Safety and Driving Behavior**
  **Session Chairs**: *Dr. XIE, Kun*, Associate Professor, University of Canterbury, New Zealand.
  *Dr. CHEN, Feng*, Associate Professor, Tongji University, China.

- **Reliability and Green Technology for Ships**
  **Session Chairs**: *Dr. BUCKNALL, Richard*, Professor, University College London, UK.
  *Dr. YUAN, Chengqing*, Professor, School of Energy and Power Engineering, Wuhan University of Technology, China.

- **Traffic Flow and Pedestrian Flow Dynamics**
  **Session Chairs**: *Dr. WONG, S.C*, Professor, Department of Civil Engineering, University of Hong Kong, China.
  *Dr. MA, Jian*, Professor, School of Transportation and Logistics, Southwest Jiaotong University, China.

- **Artificial Intelligence in Transportation**
  **Session Chairs**: *Dr. OU, Xiaobo*, Professor, Chair of Urban Mobility Systems, Department of Architecture and Civil Engineering, Chalmers University of Technology, Gothenburg, Sweden
  *Dr. HU, Zhaocheng*, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

- **Transport and Environments**
  **Session Chair**: *Dr. GE, Yingen*, Professor, Shanghai Maritime University, China.

- **Water Transport Safety: Theory and Technology**
  **Session Chair**: *Dr. WANG, Yuhong*, Professor, Ningbo University, China.

- **Salvage and Underwater Technology**
  **Session Chair**: *Dr. SUN, Changle*, Professor, Dalian Maritime University, China.

- **Railway Safety: Theory and Technology**
  **Session Chair**: *Dr. WANG, Yanhui*, Professor, School of Traffic and Transportation, Beijing Jiaotong University, China.

- **Aviation Safety: Theory and Technology**
  **Session Chairs**: *Dr. LU, Chien-tsung*, Associate Professor, Purdue University, USA.
  *Dr. SUN, Ruishan*, Professor, Research Institute of Civil Aviation Safety, Civil Aviation University of China, China.

- **Accident Prevention and Emergency Response**
  **Session Chair**: *Dr. ZHANG, Di*, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
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WANG, Yanhui, Professor, School of Traffic and Transportation, Beijing Jiaotong University, China.
WANG, Yuhong, Professor, Ningbo University, China.
WANG, Yunpeng, Professor, School of Transportation Science and Engineering, Beijing University of Aeronautics & Astronautics, China.
WONG, S.C., Professor, Department of Civil Engineering, University of Hong Kong, China.
WU, Bing, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
WU, Chaohong, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
YANG, Xiaoguang, Professor, School of Transportation Engineering, Tongji University, China.
YANG, Zaili, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.
YEO, Gitae, Professor, School of Logistics, Incheon National University, South Korea.
YIP, TSZ Leung, Associate Professor, Hong Kong Polytechnic University, China.
YI, Ping, Professor, Department of Civil Engineering, University of Akron, USA.
YING, Jiangqian, Professor, Department of Regional Policy, Gifu University, Japan.
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YUAN, Quan, Associate Professor, Tsinghua University, China.
Zhang, Cunbao, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
Zhang, WeiBin, Research Engineer, California PATH, Institute of Transportation Studies, University of California Berkeley, USA.
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HEN, Yi, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
JANG, Zhongliang, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
KONTOVAS, Christos, Senior lecturer, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
LIU, Jialun, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
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SHAW, Edward, Researcher, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
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YANG, Zaili, Professor, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
YU, Qing, Researcher, School of Navigation, Wuhan University of Technology, China.
ZHANG, Hui, Associate Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
ZHANG, Guangming, Reader, Department of Maritime and Mechanical Engineering, Liverpool John Moores University, UK.
ZHANG, Jinfen, Associate Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

CONTACT
Ms. LU, Yu
Add: 125 Mailbox, No.1178, Heping Ave., Wuchang District, Wuhan, Hubei 430063, China
E-mail: ictis@whut.edu.cn Website: http://ictis.whut.edu.cn
The 21th IEEE International Conference on Vehicular Electronics and Safety (ICVES’2019) is an annual forum sponsored by the IEEE Intelligent Transportation Systems Society (ITSS). It is the premier interdisciplinary platform for the presentation of new advances and research results in the fields of intelligent vehicular electronics and safety. It brings together leading academic scientists, researchers and scholars in the domain of interest from around the world.

**Topics**

Authors are invited to submit papers that fall into the area of vehicular electronics and safety. Topics of interest include, but are not limited to, the following:

- Active & Passive Safety Systems
- Telematics
- Vehicular Power Networks
- X-By Wire Technology
- System-On-a-Chip
- Vehicular Sensor
- On-Vehicle Sensor Networks
- Embedded Operating Systems
- Electro Magnetic Compatibility
- Inter-Vehicular Communication
- Vehicle Testing
- Navigation & Localization Systems
- Vehicular Measurement Technology
- Vehicular Signal Processing
- Micro-electromechanical Systems
- Image Sensor
- Vehicle/Engine Control
- Driver Assistance Systems
- Adaptive Cruise Control Systems
- Pattern Recognition for Vehicles
- Multi-Vehicle Systems
- Vehicle-to-X Coordination and Control

**Paper Submission**

Prospective authors are required to submit their manuscripts electrically through EDAS. Submitted papers shall not exceed six pages as a PDF file in IEEE two column format. Please use the templates at Manuscript Templates for Conference Proceedings available from the conference website to prepare your paper. All presented papers will be published by the IEEE and the conference proceedings will be submitted to the IEEE Xplore® digital library.

**Important Dates**

- Submission Deadline: 25th of May 2019
- Notification Deadline: 1st of July 2019
- Camera-ready Deadline: 22nd of July 2019

**Contact Us**

Website: [http://icves2019.org](http://icves2019.org)

Email: ieee.icves.2019@gmail.com
Call for papers

The tenth edition of the International conference on Indoor Positioning and Indoor Navigation and the sixth IPIN Competition are taking place in Pisa, Italy. Launched in 2010 in Zurich, Switzerland, IPIN is a unique event entirely dedicated to indoor localisation, its applications and its development.

Join the 400 expected industrial and academic experts in informatics, electronics and surveying to address this challenge. Discuss in person scientific and industrial matters, witness state-of-the-art systems and methods, participate in the uniquely challenging IPIN competition and enjoy the ancient town of Pisa and beautiful Tuscany.

IPIN solicits submission of high quality technical papers reporting original work not previously published, nor currently submitted for consideration elsewhere. Papers are submitted as one of two types:

- Regular paper: limited to 8 IEEE format pages, for oral presentation
- Work-in-Progress (WiP) paper: from 5 to 8 LNCS format pages, for poster or oral presentation

Paper submission instructions are found at http://ipin2019.isti.cnr.it. Papers undergo peer reviewing and, once accepted, are included in the conference proceedings by submitting WiP papers to CEUR-WS and regular papers to IEEE Xplore Digital Library.

Topics of interest include:

- User requirements
- UI, indoor maps and 3D building models
- Human motion monitoring and modelling
- Robotics and UAV
- Indoor positioning and tracking methods
  - AoA, TOF, TDOA based localisation
  - RSSI, magnetic fingerprinting
  - PDR, IMU and hybrid systems
  - UWB, ultrasound, optical systems
  - RFID, radar, device-free systems
  - Mapping, SLAM
  - Frameworks for hybrid positioning
  - Cooperative, machine learning systems
- Seamless systems
  - HS-GNSS, indoor GNSS, pseudolites
  - RTK GNSS with handheld devices
  - Mitigating GNSS error switching to indoor
  - Industrial metrology & geodetic systems, iGPS
- Self-contained sensors
- Wearable and multi-sensor systems
- Privacy and security for ILS
- Location-based services and applications
- Health and wellness applications
- Benchmarking, assessment, evaluation, standards

Special sessions on Evaluation and Machine learning.

The sixth IPIN Competition will take place the days before the conference in Pisa, in the Pisa CNR Area, following the traditional format with both on-site and off-site tracks.

The conference includes keynotes, tutorials and industry exhibitions. Confirmed keynote speakers include Nader Moayeri and Neal Patwari.

We are at http://ipin2019.isti.cnr.it and on Twitter @Conferencelpin
CALL FOR PAPER

The 2019 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2019) will be held on October 11-13, 2019 in Zhengzhou, Henan Province, China. This conference is sponsored by IEEE Intelligent Transportation Systems Society (ITSS), jointly co-organized by IEEE Council on RFID (CRFID), Qingdao Academy of Intelligent Industries (QAI), IEEE SMC Technical Committee on Social Computing and Social Intelligence - IFAC Economic, Business, and Financial Systems (TC 9.1). China Association of Artificial Intelligence-Technical Committee on Social Computing and Social Intelligence, Chinese Academy of Management-Technical Committee on Parallel Management, ACM Beijing Chapter on Social and Economic computing, INFORMS Beijing Chapter, Qingdao Association of Artificial Intelligence, Qingdao Association of Automation, and organized by Chinese Association of Automation (CAA). The theme of the conference is

"Openness, Sharing, Green and Intelligence".

Service science, service operations, logistics, and informatics are playing an increasingly important role in today’s world economy. Information and communications technology provides cyber-infrastructure and platforms to achieve more efficient and productive services operations. Meanwhile, new types of service offerings and products are emerging in large numbers, and service operation ecosystems with characteristics of openness, sharing, green and intelligence are gradually taking shape.

The IEEE Service Operations and Logistics, and Informatics (SOLI) conference series aim to bring together industrial engineers and researchers of the field of Service science, service operations, logistics, and informatics, and provide a prime international platform for researchers, industry practitioners and domain experts to exchange their latest fundamental advances in service operations related areas.

The best papers in this conference will be recommended to be extended and submitted as journal articles to IEEE/CAA Journal of Automatica Sinica, IEEE Transactions on Computational Social Systems.

**Topic Interest include (but not limited to the following):**

- Service Design, Engineering, Operations, and Innovations
- Logistics & Supply Chain Management
- Artificial Intelligence in Logistic and Sensing Network
- Service/Event Management & Manufacturing
- Information & Communications Technology and Systems
- Electronic Commerce & Knowledge Management and automation
- Business Modelling, Monitoring & Management

**Important Dates:**

- Paper submission deadline: July 15, 2019
- Notification of Acceptance: August 15, 2019
- Final Submission deadline: August 30, 2019

**Instructions for Submission:**

The manuscript should have authenticity and originality, and has not been published or simultaneously submitted to somewhere else. The length of the paper is no more than 6 pages with IEEE conference templates (https://www.ieee.org/conferences/publishing/templates.html). For more details, please visit the conference website http://www.caa.org.cn/soli2019/index.html. Question can be directed to caa@ia.ac.cn.

Note: The papers will be submitted for inclusion to IEEE Xplore, and accepted papers that are not PHYSICALLY presented will be excluded from the IEEE Xplore.
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.
IEEE Intelligent Transportation Systems Society’s Sponsored Conferences

- **2019 IEEE Intelligent Vehicles Symposium (IV’19)**
  
  June 9-12, 2019
  
  Paris, France
  

- **IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA)**
  
  
  Submission due for the next event: To be determined

  
  August 18-21, 2019
  
  Anaheim, CA, USA
  
  [https://event.asme.org/IDETC-CIE](https://event.asme.org/IDETC-CIE)

- **IEEE 22nd IEEE International Conference on Intelligent Transportation Systems (ITSC 2019)**
  
  October 27-30, 2019
  
  Auckland, New Zealand
  

- **2019 IEEE International Conference on Vehicular Electronics and Safety (ICVES’2019)**
  
  September 04-06, 2019
  
  Cairo, Egypt
  
  
  Submission due by: May 15, 2019

- **IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI)**
  
  
  Submission due for the next event: To be determined
- **IEEE Forum on Integrated and Sustainable Transportation Systems**
  
  *June 30-July 2, 2020*
  *Delft, Netherlands*
  
  
  *Submission due: December 2019*

- **The 4th International Conference on Universal Village (UV2018)**
  
  
  *Submission due for the next event: To be determined*

- **7th IEEE International Conference on Advanced Logistics and Transport (ICALT)**
  
  *June 14-16, 2019*
  *Marrakech, Morocco*
  

- **IEEE International Conference on Intelligent Rail Transportation (IEEE ICIRT)**
  
  
  *Submission due for the next event: To be determined*

- **IEEE Intelligent Conference on Intelligence and Security Informatics (ISI)**
  
  *July 1-3, 2019*
  *Shenzhen, China*
  

- **IEEE Vehicular Networking Conference (VNC)**
  
  *December 4-6, 2019*
  
  
  *Submission due: To be determined*

### Other Conferences

- **SAE CyberAuto Challenge**
  
  *July 21-26, 2019*
  *Warren, MI, USA*
  
  [http://www.sae.org/events/cyberauto/](http://www.sae.org/events/cyberauto/)

- **The 23rd International Symposium on Transportation and Traffic Theory (ISTTT23)**
  
  *July 24-26, 2019*
  *Lausanne, Switzerland*
  
  [https://isttt23.sciencesconf.org/](https://isttt23.sciencesconf.org/)
• NRITS National Rural ITS Conference
  July 21-24, 2019
  Austin, TX, USA

• IEEE 89th Vehicular Technology Conference: VTC2019-Spring
  Kuala Lumpur, Malaysia
  http://www.ieeevtc.org/vtc2019spring/

• IEEE Multi-Conference on Systems and Control
  http://www.ieeeecss.org/conferences

• IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019)
  November 4-8, 2019
  The Venetian Macao, Macau, China
  https://www.iros2019.org/

• 26th ITS World Congress
  October 21-25, 2019
  Singapore
  https://itsworldcongress2019.com/

• Seminars and Dagstuhl Perspectives Workshops 2019
  https://www.dagstuhl.de/en/program/calendar/

  February 27-29, 2020
  Valletta, Malta
  http://www.visigrapp.org

• The 8th IEEE International Conference on Connected Vehicles and Expo (ICCVE)
  November 4-8, 2019
  http://www.iccve2019.com/
  Graz, Austria

• Intertraffic Amsterdam 2020
  April 21-24, 2020
  Amsterdam, Netherlands
  http://www.intertraffic.com/amsterdam/
- **SAE World Congress Experience**  
  *Detroit, Michigan, USA*  
  [https://www.sae.org/attend/wcx/](https://www.sae.org/attend/wcx/)

- **6th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2020)**  
  *May 2-4, 2020*  
  *Prague, Czech Republic*  
  *Submission due by: Dec 13, 2019*

- **IEEE International Conference on Robotics and Automation (ICRA 2019)**  
  *Montreal, Canada*  

- **20th International Conference on Image Analysis and Processing**  
  *September 9-13, 2019*  
  *Trento, Italy*  
  [https://event.unitn.it/iciap2019/](https://event.unitn.it/iciap2019/)
Forthcoming papers on IEEE Transactions on IV

Transactions on Intelligent Vehicles 2019 Issue 3 Special Issue IV’18

Predictive Driving: Fusing Prediction and Planning for Automated Highway Driving
Christian Lienke, Christian Wissing, Martin, Keller, Till Nattermann, Torsten Bertram

Probabilistic Uncertainty-Aware Risk Spot Detector for Naturalistic Driving
Tim Puphal, Malte Probst, Julian Eggert

A Novel Integrated Simulation and Testing Platform for Self-driving Cars with Hardware in the Loop
Shitao Chen, Nan-Ning Zheng, Yu Chen, Songyi Zhang

Continuous Point Cloud Stitch based on Image Feature Matching Constraint and Score
Fangchao Hu, Yinguo Li, Mingchi Feng

Towards Closing the Loop on Human Values
Sarah M. Thornton, Benjamin Limonchik, Francis Eugene Lewis, Mykel Kochenderfer, Christian J. Gerdes

Deep Distributional Reinforcement Learning Based High Level Driving Policy Determination
Kyushik Min, Hayoung Kim, Kunsoo Huh

Efficient Multi-Object Tracking by Strong Associations on Temporal Window
Gultekin Gunduz, Tankut Acarman

Test Scenarios Development and Data Collection Methods for the Evaluation of Vehicle Road Departure Prevention Systems
Dan Shen, Qiang Yi, Lingxi Li, Renran Tian, Stanley Chien, Yaobin Chen, Rini Sherony

Lidar Mapping Optimization Based on Lightweight Semantic Segmentation
Zhihao Zhao, Wenguan Zhang, Jianfeng Gu, Junjie Yang, Kai Huang

Benchmarking Deep Learning Frameworks and Investigating FPGA Deployment for Traffic Sign Classification and Detection
Zhongyi Lin, Matthew Yih, Jeffrey M. Ota, John Owens, Pinar Muyan-Ozcelik

Hardware-in-the-Loop Autonomous Driving Simulation without Real-Time Constraints
Craig Brogle, Chao Zhang, Kai Li Lim, Thomas Braunl

Evolution of a Reliable and Extensible High-Level Control System for an Autonomous Car
Kai Li Lim, Thomas Drage, Chao Zhang, Craig Brogle, William W.L. Lai, Timothy Keliher, Manuchekhr Adina-Zada, Thomas Braunl
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Regular Papers:

Functional Safety Verification for Autonomous UGV - Methodology Presentation and Implementation on a Full-scale system
Daniel Meltz, Hugo Guterman

Vision-Based Autonomous Path Following Using a Human Driver Control Model with Reliable Input-Feature Value Estimation
Kazuhide Okamoto, Laurent Itti, Panagiotis Tsiotras

Smart Traction Control Systems for Electric Vehicles Using Acoustic Road-type Estimation
Daghan Dogan, Pinar Boyraz
Forthcoming papers on IEEE ITS Magazine

Special Issue on Emerging Mobility Systems

Guest Editors:
Xiaopeng (Shaw) Li
Xiaobo Qu
Joseph Y.J. Chow
Monica Menendez
Zhen (Sean) Qian

FEATURES

Understanding and predicting travel time with spatio-temporal features of network traffic flow, weather and incidents
Qian, Zhen; Yang, Shuguan

Zhu, Lei; Gonder, Jeffrey; Bjärkvik, Eric; Pourabdollah, Mitra; Lindenberg, Björn

Energy-Efficient Adaptive Cruise Control for Electric Connected and Autonomous Vehicles
Dong, Jing; Lu, Chaoru; Hu, Liang

Distributed Traffic Speed Control for Improved Vehicle Throughput
Liu, Chenhui; Zu, Yue; Dai, Ran

Low-cost Road Traffic State Estimation System Using Time-spatial Image Processing
UA-AREEMITR, Ekalux; Sumalee, Agachai; Lam, William H.K.

An Optimal Game Approach for Heterogeneous Vehicular Network Selection with Varying Network Performance
Xu, Zhigang; Zhao, Xiangmo; Li, Xiaochi; Chen, Ting

Traffic Volume Estimation in Multimodal Urban Networks Using Cell Phone Location Data
Liu, Zhiyuan; Xing, Jiping; Wu, Chunliang; Shuyan, Chen

Demand estimation for Aerial Vehicles in Urban Settings
Balac, Milos; Vetrella, Amedeo; Rothfeld, Raoul; Schmid, Basil

A Speed Control Method at Successive Signalized Intersections under Connected Vehicles Environment
Ding, Chuan; Lu, Yingrong; Xu, Xiaotong; Lu, Guangquan
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Ruan, Xin; Jin, Zeren; Tu, Huizhao; Li, Yue

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A Case Study in Hangzhou, Chin
Chen, Xiqun (Michael); Zheng, Hongyu; Chen, Xiaowei

Spatial Interpolation of Missing Annual Average Daily Traffic Data Using Copula-based Model
Ding, Chuan; Ma, Xiaolei; Luan, Sen; Liu, Haode; Wang, Yunpeng

Clusters of Driving Behavior from Observational Smartphone Data
Sokolov, Vadim; Warren, Josh; Lipkowitz, Jeff

Detecting Pickpocketing Gangs on Buses with Smart Card Data
Zhao, Xia; Zhang, Yong; Liu, Hao; Wang, Shaofan; Qian, Zhen; Hu, Yongli; Yin, Baocai

Analysis of the Influencing Factors of Carpooling Schemes
Liu, Zhiyuan; Huang, Kai; Kim, Inhi; Zhang, Yong; Zhu, Ting

Queue Length Estimation for Signalized Intersections Using License Plate Recognition Data
Jin, Sheng; Luo, Xiaqin; Ma, Dongfang; Gong, Yue; Wang, Dianhai

Multi-Source Traffic Data Reconstruction Using Joint Low-Rank and Fundamental Diagram Constraints
Wang, Yang; Zhang, Yong; Qian, Zhen; Wang, Shaofan; Hu, Yongli; Yin, Baocai
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Gabriel Krummenacher ; Cheng Soon Ong ; Stefan Koller ; Seijin Kobayashi ; Joachim M. Buhmann

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David González ; Joshué Pérez ; Vicente Milanés ; Fawzi Nashashibi

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3. A Tutorial on Graph-Based SLAM
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Julius Ziegler ; Philipp Bender ; Markus Schreiber ; Henning Lategahn ; Tobias Strauss ; Christoph Stiller ; Thao Dang ; Uwe Franke ; Nils Appenrodt ; Christoph G. Keller ; Eberhard Kaus ; Ralf G. Herrtwich ; Clemens Rabe ; David Pfeiffer ; Frank Lindner ; Fridtjof Stein ; Friedrich Erbs ; Markus Enzweiler ; Carsten Knoppel ; Jochen Hipp ; Martin Haeis ; Maximilian Trepte ; Carsten Brenk ; Andreas Tamke ; Mohammad Ghanat ; Markus Braun ; Armin Joos ; Hans Fritz ; Horst Mock ; Martin Hein ; Eberhard Zeeb

5. A Comparative Study Of State-Of-The-Art Deep Learning Algorithms For Vehicle Detection
Hai Wang ; YIjie Yu ; Yingfeng Cai ; Xiaobo Chen ; Long Chen ; Qingchao Liu

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**Editor: Shunsuke Kamijo, kamijo@iis.u-tokyo.ac.jp**