INTELLIGENT TRANSPORTATION SYSTEMS

https://www.ieee-itss.org/

IEEE ITS SOCIETY **NEWSLETTER**

Vol. 21, No. 3 July 2019

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Web Archive and Electronic Newsletter Subscription

The IEEE ITS Society Newsletter is published quarterly the first Wednesday of January, April, July, and October, reaching more than 17000 subscribers. You can download any issue for free, here: http://its.ieee.org
SUBSCRIBE TO THIS MAIL LIST: https://listserv.ieee.org/cgi-bin/wa?SUBED1=itssnews&A=1

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

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SEND YOUR CONTRIBUTIONS

Information for Contributors

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

SOCIETY NEWS

From the Editor

Shunsuke Kamijo

Dear readers, we have the 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.

Message from the IEEE ITS Society President

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

Educational Activities ITSS

https://edu-ieee-itss.org

Enroll now!

Courses

ITSS Courses

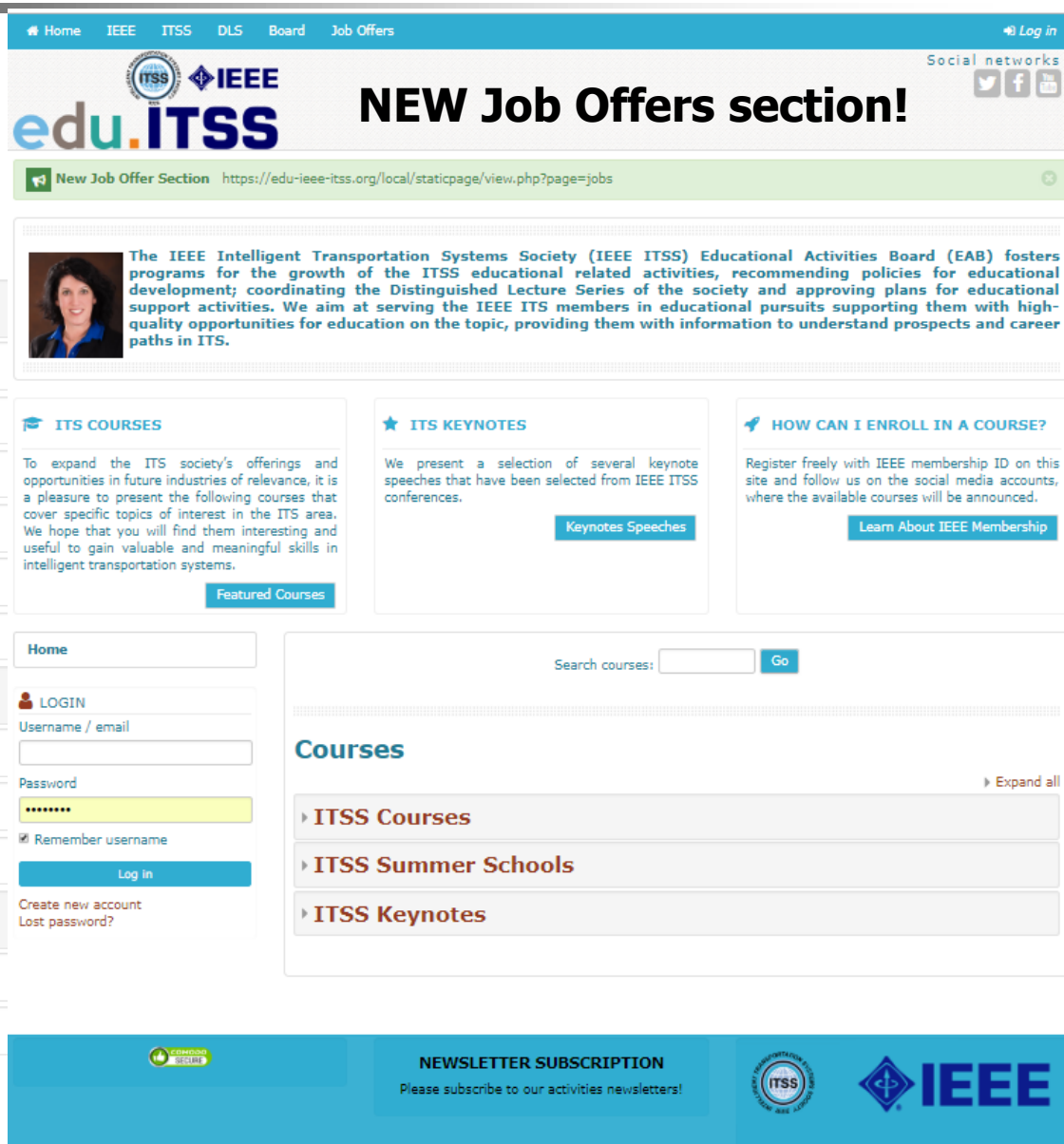
- Simulation-based Dynamic Traffic Assignment
- Introduction to Intelligent Transportation Systems
- Introduction to Vehicular Robotic Modeling with V-REP
- Short Course in Predictive Analytics in ITS
- Autonomous Vehicles, Platooning and Traffic Flow Control for Connected Vehicles
- A primer on security 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

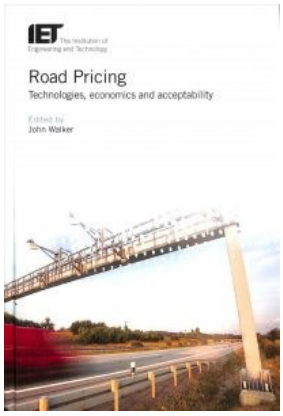


ITS Podcast New Episodes and Information

Please, circulate this!

ITS Podcast Episode 52: Market growth of ITS and road pricing

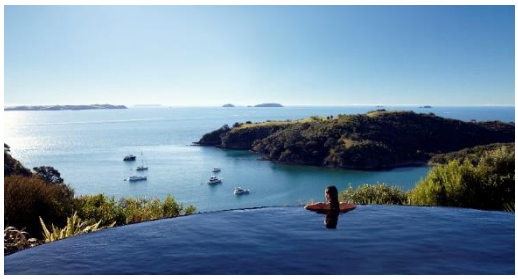
Dear Subscribers,
I welcome you to our May episode in 2019.
We will start the episode news minisection about the advances in ITS and autonomous driving. Also we have a review on a book about Road Pricing: Technologies, economics and acceptability, edited John Walker.
I hope you enjoy.



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.

ITSS
IEEE
ITS Podcast



27 – 30 October 2019, Auckland, New Zealand
http://www.itsc2019.org

ITSC 2019 Leadership Team

Advisors to General Chair:
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Miguel Angel Sotelo, Spain
Petros Ioannou, USA
Wei-Bin Zhang, USA

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Vicente Milanes, France

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Wei Liu, Australia

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Ahmed Hussein, Germany

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Mehdi Keyvan-Ekbatani, New Zealand
Prakash Ranjitkar, New Zealand

Web & Social Media Co-Chairs:
Ahmed Hussein, Germany
Mostafa Osman, Canada

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

SINGAPORE 2019

26th ITS World Congress
21–25 October

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

Scientific Programme Themes

- **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**

Join our mailing list at **www.itsworldcongress2019.com** to receive the latest information on the 26th World Congress on Intelligent Transport Systems 2019.

Enjoy the Singapore Experience!

14 highlights not to be missed while you are at the 2019 ITS World Congress in Singapore:

1. Local food
2. Melting pot of cultures
3. Arts scene
4. Charming neighbourhoods
5. Iconic architecture
6. Museums
7. Family-friendly attractions
8. Theme parks
9. Nightlife
10. Sporting events
11. Nature parks
12. Wildlife
13. Offshore islands
14. Public transport system

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

www.itsworldcongress2019.com

Land Transport Authority
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ITS Singapore

Why should you attend?

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

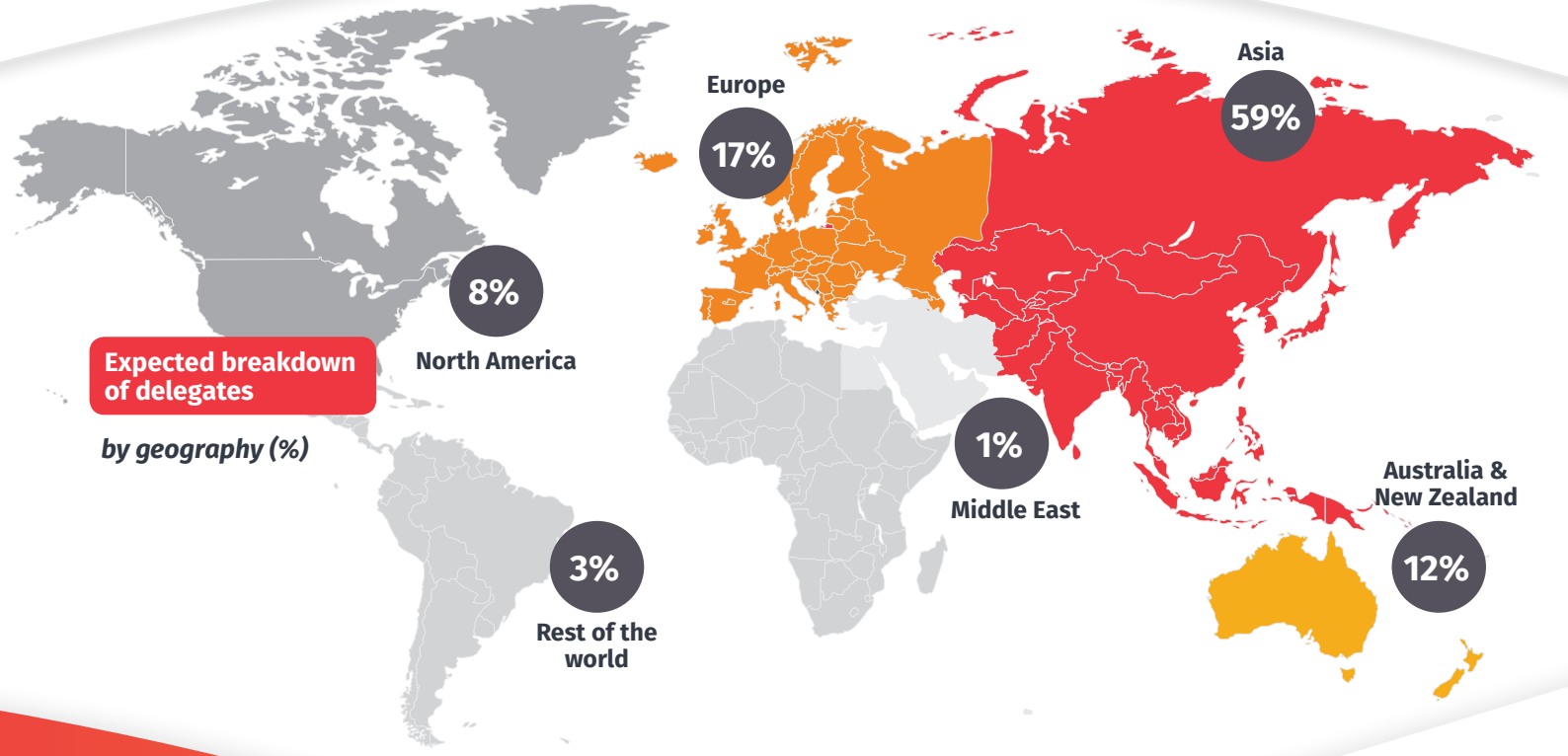
- Academics
- Advisors/Consultants
- Analysts
- Board Executives
- Business Development
- Chairpersons
- Chief Executive Officers
- Chief Operations Officers
- Chief Technology Officers
- Commercial Vehicle Operators
- Data Scientists
- Directors
- Engineers
- Executives
- Fleet Managers
- General Managers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

Expected breakdown of delegates

by geography (%)



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

BE PART OF THE GLOBAL COLLABORATION CREATING 5G FOR THE BENEFIT OF SOCIETY

30 September to 2 October 2019
Dresden, Germany
ieee-wf-5g.org

IEEE 5G WORLD FORUM
The flagship event of the IEEE Future Networks Initiative

2019 IEEE 2nd 5G World Forum (5GWF'19)

CALL FOR PAPERS and PROPOSALS

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.

Technical Papers

- Track 1: 5G Technologies
- Track 2: 5G Application and Services
- Track 3: 5G & IoT
- Track 4: 5G Security and Privacy
- Track 5: 5G Trials, Experimental Results and Deployment Scenarios
- Track 6: 5G Hardware and Test / Measurements
- Track 7: 5G Special Verticals
- Track 8: 5G Special Topical
- 5G Applications and Services Workshop
- IoT in the 5G Era Workshop
- 5G Challenges for Wireless Communications for Railways Workshop
- From Evolution to Revolution, a Roadmap for Beyond 5G Workshop
- 2nd SECRET Workshop - Secure Network Coding for Reduced Energy Next Generation Mobile Small Cells
- 2nd Workshop on 5G-Trials - From 5G Experiments to Business Validation
- Satellite and Non-Terrestrial Networks for 5G Workshop
- 5G Key Technologies for Connected Vehicles Workshop

Proposals

- Tutorials
- Industry Forums & Panel Sessions
- Industry Demonstrations
- Doctoral Symposium
- Start-ups
- Exhibitions
- Hackathon
- 5G Vertical Areas
- 5G Topical Areas

Please submit your papers on EDAS: https://edas.info/N25426

Please address questions regarding the Call for Papers to wf5G2019@ieee.org.

Accepted and presented technical and workshop papers will be published in the IEEE 5G World Forum 2019 Conferences Proceedings and IEEE Xplore®. See the website for author requirements. Full details of submission procedures are available at www.ieee-wf-5g.org.

Organizing Committee

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Dilip Krishnaswamy, Reliance Jio Infocomm
Athul Prasad, Nokia
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
FINAL EXTENSIONS

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

IEEE | IEEE Future Networks Enabling 5G and Beyond | 5G Lab Germany | IEEE ComSoc IEEE Communications Society

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:

Wuhan University of Technology, Wuhan, China

Liverpool John Moores University, Liverpool, UK

Supported by:

National Engineering Research Center for Water Transport Safety, MOST (China)

Engineering Research Center for Transportation Safety, MOE (China)

Base for International Science & Technology Cooperation on Smart Shipping and Maritime Safety, MOST (China)

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 and 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

CONFERENCE 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. HAN, Ke,*** Associate Professor, Center for Transport Studies, Imperial College London, UK.
  Dr. MA, Wanjing, 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. QU, Xiaobo,*** Professor, Chair of Urban Mobility Systems, Department of Architecture and Civil Engineering, Chalmers University of Technology, Gothenburg, Sweden
  Dr. HU, Zhaozheng, 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.

1st ICTIS 2011

2nd ICTIS 2013

3rd ICTIS 2015

4th ICTIS 2017

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.

- ◆ **Research Network on Emergency Resources Supply Chain**

Dr. REN, Jun, Reader, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.

ACADEMIC COMMITTEE

Honorary Chairman

PRICE, William Geraint, *Fellow of the Royal Society and the Royal Academy of Engineering, Foreign Fellow of the Chinese Academy of Engineering*, Professor, University of Southampton, UK.

Chairman

GUEDES SOARES, Carlos, *Portuguese Academy of Engineering,* Professor, Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.

Co-Chairmen

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LI, Huajun, *Academician of Chinese Academy of Engineering*, Professor, Ocean University of China, China.
MOSLEH, Ali, *Member of US National Academy of Engineering,* Professor, University of California, Los Angeles, USA.
RILETT, Laurence R., Professor, Department of Civil Engineering, University of Nebraska- Lincoln, USA.

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BEER, Michael, Professor, Leibniz University Hannover, Germany.
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CHEN, Feng, Associate Professor, Tongji University, China.
CHU, Xiumin, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
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HAN, Ke, Associate Professor, Center for Transport Studies, Imperial College London, UK.
HAUGEN, Stein, Professor, Department of Marine Technology, Norwegian University of Science and Technology (NTNU), Norway.
HU, Zhaozheng, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
HUNT, John Douglas, Professor, University of Calgary, Canada.
JIA, Limin, Professor, Institute of Intelligent Transportation System and Safety Technology, Beijing Jiaotong University, China.
KOSTOGRYZOV, Andrew I., Honored Science Worker of the Russian Federation, Research Institute of Applied Mathematics and Certification, Russia.
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LEI, Chengwang, Professor, University of Sydney, Australia.
LI, Wenfeng, Professor, School of Logistics Engineering, Wuhan University of Technology, China.
LI, Zongzhi, Professor, Illinois Institute of Technology, USA.
LIU, Guoxin (Andrew), Adjunct Professor of Engineering, University of Regina, Canada.
LIU, Henry, Professor, Civil and Environmental Engineering, University of Michigan, USA.
LIU, Jingxian, Professor, School of Navigation, Wuhan University of Technology, China.
LIU, Yiliu, Associate Professor, NTNU, Norway.
MA, Jian, Professor, School of Transportation and Logistics, Southwest Jiaotong University, China.
MA, Wanjing, Professor, College of Transportation Engineering, Tongji University, China.
MENG, Qiang, Professor, Department of Civil Engineering, National University of Singapore, Singapore.
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PATELLI , Edoardo, Senior Lecturer, Institute for Risk and Uncertainty, Liverpool University, UK.
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RAMUDHIN, Amar, Professor and Director of the Logistics and Humber Development Institute, Hull University, UK.
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ICVES 2019

IEEE International Conference on Vehicular Electronics and Safety

September 04 - 06, 2019
Cairo, Egypt

Committees

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Scope

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

Email
ieee.icves.2019@gmail.com

@icves2019

IPIN 2019

TENTH INTERNATIONAL CONFERENCE ON INDOOR POSITIONING AND INDOOR NAVIGATION

30 September - 3 October 2019, Pisa, Italy

Technically co-sponsored by

IEEE Advancing Technology for Humanity

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 @ConferenceIpin

Important Dates

Paper submission (extended):	~~10 May~~ 26 May
Notification of acceptance:	30 June
Camera-ready:	21 July

IEEE Instrumentation & Measurement Society

ITSS IEEE Intelligent Transportation Systems Society

IEEE Italy Section

IEEE Sensors Council Italy Chapter

IEEE System Man and Cybernetics Italy Chapter

sensors an Open Access Journal by MDPI

ETRI Electronics and Telecommunications Research Institute

KICS The Korean Institute of Communications and Information Sciences

Consiglio Nazionale delle Ricerche

Area della Ricerca di Pisa

IEEE SOLI 2019

Openness& Sharing& Green& Intelligence

IEEE International Conference on Service Operations and Logistics, and Informatics 2019

October 11-13, 2019, Zhengzhou, Henan Province, China

http://www.caa.org.cn/soli2019/index.html

CALL FOR PAPER

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Sponsors' logo

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 (QAII), 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
- Service Delivery and Operations
- Mobile Internet, Cyber-Physical-Social Systems
- Intelligent Transportation Systems (ITS)
- Big Data & Sensors and Sensing Network for Smart City
- Autonomous Vehicle Technologies
- Smart Home Technologies & Intelligent Robotics
- Blockchain and distributed artificial intelligence
- Social computing and social intelligence
- RFID Technology & Application
- Cloud Computing and the Internet of Things

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 has 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.

2019 IEEE ICCVE

November 4-8, 2019 - Graz | Austria

The 8th IEEE International Conference on Connected Vehicles and Expo (ICCVE)

2019 IEEE ICCVE Organizers

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www.iccve2019.com

CALL FOR PAPERS

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Virtual Vehicle, Austria

SUBMISSION PROCESS & DEADLINES

June 26, 2019
Special Session and Tutorials Proposal Deadline

June 7, 2019
Full Paper Submission

July 19, 2019
Review Notification (Accept, Reject, Accept with Minor Revisions)

August 5, 2019
Final Notification Deadline (Accept or Reject)

August 9, 2019
Final Manuscript Submission for ALL papers (Final Manuscript, Copyright Form, Author Registration)

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.

Conference Calendar

IEEE Intelligent Transportation Systems Society's Sponsored Conferences

- **2019 IEEE Intelligent Vehicles Symposium (IV'19)**
  June 9-12, 2019
  Paris, France
  http://www.iv2019.org/
- **IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications (MESA)**
  http://mesa2018.org/
  Submission due for the next event: To be determined
- **The ASME 2019 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2019)**
  August 18-21, 2019
  Anaheim, CA, USA
  https://event.asme.org/IDETC-CIE
- **IEEE 22nd IEEE International Conference on Intelligent Transportation Systems (ITSC 2019)**
  October 27-30, 2019
  Auckland, New Zealand
  https://www.itsc2019.org/
- **2019 IEEE International Conference on Vehicular Electronics and Safety (ICVES'2019)**
  September 04-06, 2019
  Cairo, Egypt
  http://www.icves2019.org/
  Submission due by: May 15, 2019
- **IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI)**
  http://2018.ieee-soli.org/
  Submission due for the next event: To be determined

- **IEEE Forum on Integrated and Sustainable Transportation Systems**

  June 30-July 2, 2020

  Delft, Netherlands

  http://forum-ists2020.org/

  Submission due: December 2019

- **The 4th International Conference on Universal Village (UV2018)**

  http://www.universal-village.org/

  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

  http://icalt.org/2019/

- ***IEEE* International *Conference on Intelligent Rail Transportation (IEEE ICIRT)***

  https://www.ieee-icirt2018.com/

  Submission due for the next event: To be determined

- ***IEEE Intelligent Conference on Intelligence and Security Informatics (ISI)***

  July 1-3, 2019

  Shenzhen, China

  http://www.isi-conf.org/

- ***IEEE Vehicular Networking Conference (VNC)***

  December 4-6, 2019

  http://www.ieee-vnc.org/

  Submission due: To be determined

Other Conferences

- **SAE CyberAuto Challenge**

  July 21-26, 2019

  Warren, MI, USA

  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/

- **NRITS National Rural ITS Conference**
  July 21-24, 2019
  Austin, TX, USA
  https://www.ite.org/events-meetings/2019-joint-ite-international-and-texas-district-annual-meeting-and-exhibit/
- **IEEE 89th Vehicular Technology Conference: VTC2019-Spring**
  Kuala Lumpur, Malaysia
  http://www.ieeevtc.org/vtc2019spring/
- **IEEE Multi-Conference on Systems and Control**
  http://www.ieeecss.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/
- **VISIGRAPP 2020: 15th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications**
  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/

- **6th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2020)**

  May 2-4, 2020

  Prague, Czech Republic

  http://www.vehits.org/

  Submission due by: Dec 13, 2019

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

  Montreal, Canada

  https://www.icra2019.org/

- **20th International Conference on Image Analysis and Processing**

  September 9-13, 2019

  Trento, Italy

  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. Throrton, 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

Forthcoming papers on IEEE Transactions on IV

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

An Automated Vehicle Fuel Economy Benefits Evaluation Framework Using Real-World Travel and Traffic Data
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

Forthcoming papers on IEEE ITS Magazine

Dynamic Cellular Learning Automata for Evacuation Simulation
Ruan, Xin; Jin, Zeren; Tu, Huizhao; Li, Yue

How Does On-Demand Ridesplitting Influence Vehicle Use and Purchase Willingness? 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
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