In This Issue

Society News and Announcements
- Message from the Editor ................................................................. 2
- Message from the IEEE ITS Society President .................................. 3
- IEEE ITS Society Educational Activities ........................................... 5
- 2018 ITSS Board of Governors Election Results .................................. 6
- ITS Podcast New Episodes and Information ...................................... 10

Conferences and Call for Papers
- 2019 IEEE ITSC (International IEEE Conference on Intelligent Transportation Systems) - CFP ..................................................... 11
- Call for participants of Travelling Fellowship ........................................ 12
- 2019 ICTIS (International Conference on Transportation Information and Safety) - CFP ..................................................... 13
- 2019 IEEE ICVES (International Conference on Vehicular Electronics and Safety) - CFP ..................................................... 18
- 2019 IPIN (International Conference on Indoor Positioning and Indoor Navigation) - CFP ..................................................... 19
- The 26th ITS World Congress ................................................................ 20
- IEEE Transactions on Intelligent Vehicles - CFP .................................. 22

Conference Calendar .............................................................................. 23
- Forthcoming papers at Transactions on ITS ......................................... 27
- Forthcoming papers at Transactions on IV .......................................... 30
- Forthcoming papers at ITS Magazine .................................................. 31
- Most popular papers/episode at T-ITS, ITS Mag. and ITS Podcast ........ 32
- Officers and Committee Chairs .......................................................... 33

©2018 by The Institute of Electrical and Electronics Engineers, Inc. Personal use of this material is permitted. Permission from IEEE must be obtained for all other uses, including reprinting/republishing this material for advertising or promotional purposes, creating new collective works for resale or redistribution to servers or lists, or reuse of any copyrighted component of this work in other works.
From the Editor
Shunsuke Kamijo

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

President of our society gives us the message “On the Right Track” in this issue. We also announce the BoG election result in this issue. We have an introduction for ITS Society Educational Activities.

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 ITS and ITS Magazine.
On the Right Track

Once more, I have the opportunity to address a brief message to all ITSS members and readers of our periodicals. If you are reading this, it means that, somehow, you are supporting the ITS society publications and activities. Thanks for being always there and for your continuous support. Your opinions and suggestions will always be welcome in order to make the ITSS the best possible scientific society in the field of Intelligent Transportation. The ITSS continues to move forward in line with our strategic plan. What does our strategic plan say, you might wonder? Very simple. We want to increase the visibility and impact of the ITSS worldwide, to put it short. For this purpose, we have devised a number of operational initiatives, aiming at developing an appropriate communication plan, establishing alliances with other institutions and bodies dealing with ITS, and increasing the impact of our periodicals and flagship conferences, among other measures. The ITSS is approaching 2,000 members, the registration number of our flagship conferences is reaching the figure of 1,000, and the impact factor of our periodicals continues to increase, being positioned among the most prestigious and influential journals in the field of Intelligent Transportation Technologies. Although we still have a long way ahead, I think it is safe to say that the ITSS is on the right track.

We are pleased to announce that five new ITSS members have just been elected to become part of the IEEE ITSS Board of Governors (BOG) for a 3-year term (2019-2021). It is my pleasure to welcome Alexander Paz (Queensland University of Technology, Australia), Simona Sacone and Silvia Siri (Università degli Studi di Genova, Italy), Eleni Vlahogianni (National Technical University of Athens, Greece), and Javier Sánchez-Medina (University of Las Palmas de Gran Canaria, Spain). Congratulations for your appointments and our gratitude for your commitment with the ITS Society and for accepting this challenge. We are eager to work with you during the next three years. We are constantly seeking new ITSS colleagues that serve as representatives of our society in different IEEE committees, or willing to serve as Associate Editors of our conferences and periodicals, etc. There are many different possibilities to serve the ITSS and enhance your career. If you are interested in volunteering for the ITSS in some way, just drop me a line and let’s talk.

As usual, we have several opportunities this year to meet and gather at our flagship conferences and events. Please, bookmark on your calendar the IEEE Intelligent Vehicles Symposium 2019
in Paris, France (June 9-12, 2019) and the IEEE Intelligent Transportation Systems Conference 2019 in Auckland, New Zealand (October 27-30, 2019). In 2019, IV goes to Paris, at the heart of Europe, while ITSC travels Down Under for the first time (New Zealand). Great events and great venues. Don’t miss it.

Sincerely,

Miguel Ángel Sotelo
President. IEEE Intelligent Transportation Systems Society
Educational Activities ITSS
https://edu-ieee-itss.org

Enroll now!

NEW Job Offers section!

ITSS Courses
- 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
ALEXANDER PAZ (AF’16-M’17) received his Ph.D. degree in Transportation and Infrastructure Systems from Purdue University in 2007. Currently, he is a Professor and Transport Main Roads Chair at the Queensland University of Technology in Brisbane, Australia. Previously, he was an Associate Professor and Director of the Transportation Center at the University of Nevada, Las Vegas. Dr. Paz’ broad interests include the application of operations research, control theory, econometric methods, and informatics for the modeling, analysis, and control of large-scale dynamic transportation systems. Dr. Paz has conducted extensive research about the deployment of real-time traffic routing information, the implementation of business intelligence applications for infrastructure management, and the development of software and hardware products for transportation engineering, traffic safety, and data analytics and visualization including geographic information systems. Dr. Paz’ current areas of work include Transportation Networks, Traffic Safety, Geographic Information Systems, Intelligent Transportation Systems, and Transportation Planning. Dr. Paz has been particularly successful in applying Computer Science and concepts from Informatics for the solution of various challenging international and state transportation problems. The Nevada Department of Transportation is currently using various models and software systems developed by Dr. Paz. He is the author/coauthor of 1 book, 36 refereed journal papers on Transaction of ITS, Transportation Research A-C, Transportation Research Record, Networks and Spatial Economics, etc., and over 50 refereed conference papers on ITSC, TRB, VEHITS, etc. He has 3 patent applications pending.

SIMONA SACONE (M’11) received her Master degree in Electronic Engineering in 1992 and the Ph.D. degree in Electronic Engineering and Computer Science in 1997. Presently she is Associate Professor of Automatic Control at the Department of Informatics, Bioengineering, Robotics and Systems Engineering of the University of Genova in Italy where she teaches Systems Theory, Identification and Estimation Techniques, and Optimization and Control of Logistic Systems and where she acts as the coordinator of the PhD Course on Systems Engineering.

Her research activity is devoted to optimization and control of complex physical processes with specific application to logistic systems and networks planning and to freeway traffic control.
She has authored and co-authored one book (“Freeway Traffic Modelling and Control”, Advances in Industrial Control, Springer, 2018) and about 150 papers published on international journals, international books and international conference proceedings.

Presently she serves as Associate Editor for the IEEE Transactions on Intelligent Transportation Systems and for the IEEE Control Systems Magazine. She is acting as Associate Editor for the IEEE International Conference on Intelligent Transportation Systems (since 2013), for the IEEE International Conference on Vehicular Electronics and Safety (since 2015), for the International Conference on Computational Logistics (since 2015), for the IFAC World Congress (since 2017), for the IEEE International Conference on Systems, Man, and Cybernetics (since 2013), for the IEEE International Conference on Robotics and Automation (2012), for the IFAC Symposium on Control in Transportation Systems (since 2012) and for the IFAC/IEEE Workshop on Discrete Event Systems (since 2010).

She has organized several special sessions and international workshops at IEEE conferences and she is being a regular reviewer for several international journals and international conferences in the field of Intelligent Transportation Systems and Control Theory. She has been Guest Editor together with Antonella Ferrara and Silvia Siri of the Special Issue “Recent Trends in Traffic Modelling and Control” on the International Journal of Robust and Nonlinear Control in 2015. She has been the General Chair of the 15th IFAC Symposium on Control in Transportation Systems, held in Savona, Italy, on June 2018. She is the Chair of the Technical Committee on Logistics of the IEEE Intelligent Transportation Systems Society. She is member of the IFAC Technical Committees 7.4 on Transportation Systems and 1.3 on Discrete Event and Hybrid Systems.

During the last ten years she has been the principal investigator of research grants and contracts funded by National Ministries, research centres and companies for approximately 1M €. She also participated as scientific responsible to projects funded by the European Commission.

Javier Sanchez Medina
University of Las Palmas de Gran Canaria CICEI, Spain

JAVIER SANCHEZ-MEDINA (M’10-SM’17) His alma Mater is University of Las Palmas de Gran Canaria (ULPGC), in Spain. His PhD dissertation (2008) versed on the use of Genetic Algorithms, Parallel Computing and Cellular Automata based Traffic Microsimulation to optimize the Traffic Lights Programming within an Urban Traffic Network. He is the head of the Innovation Centre for the Information Society, a research center at ULPGC.

His research interests include mainly the application of Evolutionary Computation, Data Stream Mining and Parallel Computing to Intelligent
Transportation Systems. He has a wide experience on the development of traffic models and simulation platforms. He has widely published his research with more than 30 international conference articles, more than 20 international journal articles and 3 research chapters. He has also being keynote speaker at two conferences (ANT2017, SOLI2017) and distinguished lecturer at the IEEE ITSS Tunisian Chapter in November, 2016. He will be keynote speaker next year at two other conferences (VEHITS2019 and SMARTGREENS).

Javier Sanchez-Medina has been volunteering for several years at many international conferences related to Intelligent Transportation, Computer Science, Evolutionary Computation, etc. He is reviewer for some Transportation related IEEE and non-IEEE journals.

Silvia Siri
Department of Informatics, Bioengineering, Robotics and Systems Engineering, University of Genova, Italy

SILVIA SIRI (M’12) received the Master Degree in Management Engineering in 2002 and the Ph.D. Degree in Information and Communication Technologies in 2006, both at the University of Genova. From November 2006 to December 2015 she was a postdoctoral research fellow at the University of Genova and since January 2016 she has been Assistant Professor of Automatic Control at the Department of Informatics, Bioengineering, Robotics and Systems Engineering, University of Genova, where she will be Associate Professor starting from January 2019. She presently teaches “Models and Methods for Automation” and “Models and Methods for Optimisation and Control”, at the University of Genova, in Bachelor and Master Degrees of Engineering.

Her research interests deal with modelling, optimization and control of complex dynamical systems. Most of her research activity has involved modelling and control of road traffic systems and optimal planning of intermodal nodes and logistic networks. A more recent research activity has been related to the definition of optimization tools for the design of electric mobility systems and distributed energy systems. On these topics, she has been involved in numerous research projects at national or international level, both funded by public authorities or private companies. She is co-author of more than 100 papers in international journals, international books and international conference proceedings and she is also co-author of a Springer monograph on freeway traffic modelling and control.

She has taken part in many editorial activities. Since 2016 she has been Associate Editor of the IEEE Transactions on Intelligent Transport Systems. Since 2012 she has been member of the IFAC Technical Committee TC 7.4 on Transportation Systems, for which she serves as Vice-Chair for Social Media, since 2014 she has been member of the IFAC Technical Committee TC 1.3 on Discrete Event and Hybrid Systems and since 2017 Co-chair of the Technical Committee on Logistics of the IEEE Intelligent Transportation Systems Society. She currently is and has
been member of the International Program Committee or Associate Editor of numerous international conferences and events, such as the IEEE International Conference on Intelligent Transport Systems, the IEEE International Conference on Systems, Man, and Cybernetics, the International Conference on Vehicle Technology and Intelligent Transport Systems, the IFAC Symposium on Control in Transportation Systems, and she serves also as reviewer for international conferences and journals in the area of automatic control, operations research and transportation. She has organized different invited sessions and tracks at international conferences and in 2016 she was Guest Editor of one special issue on the International Journal of Robust and Nonlinear Control. She has been Co-Chair of the National Organizing Committee of the 15th IFAC Symposium on Control in Transportation Systems, held in Savona, University of Genova, on June 2018.

Eleni I. Vlahogianni
Department of Transportation Planning and Engineering, School of Civil Engineering, National Technical University of Athens, Greece

ELENI I. VLAHOGIANNI (M’07) is an Assistant Professor at the Department of Transportation Planning and Engineering of the National Technical University of Athens. She holds a diploma in Civil Engineering and a Ph.D. from the National Technical University of Athens, Greece (NTUA) (specializing in Traffic Operations). She was a Visiting Scholar at the Institute of Transportation Studies of the University of California, Berkeley (US) working on the development of an Arterial Performance Measure System (APeMS). Her primary research field is traffic flow analysis and forecasting. Other research fields include mobility modeling, driving analytics, ICT applications to transportation, Intelligent Transportation Systems, traffic management, advanced technologies for monitoring transportation infrastructures. She has a strong algorithmic background, which includes nonlinear dynamics, applied statistical modeling, data mining and machine learning techniques and computational intelligence. Her professional and research experience includes projects and consultancies, in a national and European level focusing on urban mobility and traffic flow management, public transport and traffic safety. Moreover, she is an author of more than 50 articles in international peer reviewed journals and more than 60 publications in international conference proceedings with over 2900 citations. She serves as Reviewer in many journals IEEE Transactions on Mobile Computing, IEEE Access, IEEE Transactions on Human-Machine Systems, IEEE Communication Letters, IEEE Transactions on Intelligent Transport Systems and Intelligent Transportation Systems Magazine. She has been serving as a reviewer or editor in the IEEE International Conference on Intelligent Transportation Systems since 2006. She is a Member of IEEE since 2007 (ID: 80693271). She is an Associate Editor in Transportation Research Part C: Emerging Technologies, IEEE Intelligent Transportation Systems Magazine and International Journal of Transportation Science and Technology. She is the Chair of the IEEE ITSS Technical Committee on Smart Cities and Smart Mobility.
ITS Podcast New Episodes and Information

*Please, circulate this!*

**ITS Podcast Episode 51:** Legal Aspects of Autonomous Driving, a talk with Prof. Bryant Walker Smith

Dear readers I hope you have a wonderful Spring. This episode starts with a short news mini-section by Dr Maryam Kaveshgar, followed by the book reviewed by Prof. Haluk Eren, from Firat University The book title is “INTRODUCTION TO SENIOR TRANSPORTATION”, and consists of 212 pages; written by Helen Kerschner and Nina Silverstein. This is followed by an interview conducted by Prof. Jeffrey Miller with Prof. Bryant Walker Smith discussing legal issues of driverless cars.

*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](mailto:itsspodcast@gmail.com) Or just simply message us on any of our social media.*

This podcast is sponsored by IEEE intelligent transportation system society.
Important Dates (firm final deadlines, no further extensions)

- Special session proposals—31 January 2019
- Submission site open—20 February 2019
- Special session papers—15 April 2019
- Regular papers—15 April 2019
- Workshop and tutorial proposals—15 April 2019
- Panel session proposals—30 April 2019
- Acceptance notification (all types)—30 June 2019
- Early bird registration—10 July 2019
- Final paper submissions (all types)—15 July 2019
- Workshops and tutorials—27 October 2019
- ITSS - ITE Symposium—27 October 2019
- Conference—28—30 October 2019
Call for Participants:
IEEE ITSS Young Professionals Travelling Fellowship Program 2019

Young Professionals Travelling Fellowship Program 2019

Institute of Electrical and Electronics Engineers (IEEE) Intelligent Transportation Systems Society (ITSS) will organise a Travelling Fellowship Program in 2019 for Young Professionals (under 35 years old). Candidates can send applications (maximum two A4) by May 30, 2019, by proposing potential ITS products and/or mobility services based on novel algorithms or new solutions. Selected Young Professionals, who should be IEEE ITSS member before June 2019, will be invited to attend the IEEE Intelligent Transportation Systems Conference (ITSC) on 27-30 October 2019 in Auckland, New Zealand, including a special networking event with industry partners. Travel costs and conference registration fee will be reimbursed by IEEE ITSS. We look forward to meet you at IEEE ITSC 2019 in New Zealand.

Join IEEE ITSS before June 2019!
http://its.ieee.org/membership

Become a IEEE ITSS Young Professionals Travelling Fellow 2019!

Win a Travelling Fellowship prize and attend IEEE / ITSC 2019 on 27-30 October 2019 in Auckland, New Zealand!

Join IEEE ITSS before June 2019!

Important dates
- May 30, 2019 proposal submission deadline
- June 20, 2019 announcement of 2019 Travelling Fellows
- Attendance of IEEE ITSC 2019 Auckland, New Zealand

Organiser contact and submission details:
Dr. Meng Lu
VP Conference Activities, IEEE Intelligent Transportation Systems Society
Email <wklm@xs4all.nl>
M. +31 6 4505 4735

Submit a proposal by May 30, 2019 to compete for participation in the 2019 Young Professionals Travelling Fellowship Program of IEEE / ITSS
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
SPECIAL SESSIONS

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

- **Behavioural Maritime Safety**
  - **Session Chair:** Dr. **LU, Chin-Shan**, Professor, Hong Kong Polytechnic University, Hong Kong SAR, China.
  - **Session Chair:** 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**
  - **Session Chair:** Dr. **WANG, Jin**, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.

- **Research Network on Emergency Resources Supply Chain**
  - **Session Chair:** 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
GUDEUS SOARES, Carlos, Portuguese Academy of Engineering, Professor, Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.

Co-Chairmen
FU, Liping, Professor, Department of Civil Engineering, University of Waterloo, Canada.
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.

Members
BEER, Michael, Professor, Leibniz University Hannover, Germany.
BUCKNALL, Richard, Professor, University College London, UK.
CHEN, Feng, Associate Professor, Tongji University, China.
CHU, Jiunnin, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
DAVIES, Paul, Technical Manager, Lloyds Register, UK.
DONG Jingxin, Professor, Newcastle Management School, Newcastle University
FORTINO, Giancarlo, Professor, University of Calabria, Italy.
GE, Yingen, Professor, College of Transport & Communications, Shanghai Maritime University, China.
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.
LAM, Jasmine, Associate Professor, School of Civil Engineering, Nanyang University of Technology, Singapore.
LEI, Chengwang, Professor, University of Sydney, Australia.
LI, Wenfeng, Professor, School of Logistics Engineering, Wuhan University of Technology, China.
LI, Zongzi, 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, Yijun, 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.
MIYAMOTO, Kazuaki, Professor, Tohoku University, Japan.
MOHAMED, Abdel-Aty, P.E., Professor, University of Central Florida, USA.
MONTEWKA, Jakub, Professor, Gdynia Maritime University, Poland.
OSIRIS, Valdez Banda, Research Fellow, Aalto University, Finland.
OZKAN, Turker, Associate Professor, Department of Psychology, Middle East Technical University, Ankara, Turkey.
PAPAGEORGIOU, Markos, Professor, Technical University of Crete, Greece.
PATELLI, Edoardo, Senior Lecturer, Institute for Risk and Uncertainty, Liverpool University, UK.
PENG, Zhongxiang, Professor, University of New South Wales, Australia.
RAMUDDIN, Amar, Professor and Director of the Logistics and Humber Development Institute, Hull University, UK.
RAN, Bin, Professor, Department of Civil and Environmental Engineering, University of Wisconsin - Madison, USA.
REN, Jun, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.
SHARMA, Satish, Professor, University of Regina, Canada.
SONG, Dongping, Professor, Management School, University of Liverpool, UK.
SUN, Changle, Professor, Dalian Maritime University, China.
SUN, Ruishan, Professor, Research Institute of Civil Aviation Safety, Civil Aviation University of China, China.
TAY, Richard, Professor, Faculty of Law and Management, La Trobe University, Australia.
THEOTOKATO, Gerasimos, Reader of Safety of Marine Systems, Strathclyde University, UK.
TIAN, Daxin, Professor, Beihang University, China.
TSAI, Yichang (James), Professor, School of Civil and Environmental Engineering, Georgia Institute of Technology, USA.
WANG, Jin, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.
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.
YUAN, Chengqing, Professor, School of Energy and Power Engineering, Wuhan University of Technology, China.
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.
ZHANG, Yi, Professor, Department of Automation, Tsinghua University, China.
ZHONG, Ming, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
CHOIRMAN

YAN, Xinping, Chair Professor and Director, National Engineering Research Center for Water Transport Safety, Wuhan University of Technology, China.

CO-CHAIRMEN

LU, Meng, Vice President-Conference Activities, ITS Society, IEEE and Dynriq, Netherlands.
WANG, Jin, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.
YANG, Zaili, Professor, Liverpool LOOM Research Institute, Liverpool John Moores University, UK.
YI, Ping, Professor, Department of Civil Engineering, University of Akron, USA.
ZHANG Di, Professor, National Engineering Research Center for Water Transport Safety, Wuhan University of Technology, China.

MEMBERS

BASHIR, Musa, Senior Lecturer, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
BLANCO-DAVIS, Eddie, Senior Lecturer, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
CAMERON, Kelly, Researcher, LOOM, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
CHANG, Chia-Hsun, Senior Lecturer, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
CHEN, Deshan, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
FAN, Ailong, Lecturer, School of Energy and Power Engineering, Wuhan University of Technology, China.
HASSAN, Shamsudeen, Researcher, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
HE, Yi, Assistant Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
JIA, Zhongquan, 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.
LIU, Kezhong, Professor, School of Navigation, Wuhan University of Technology, China.
LOUGHNEY, Sean, Research Fellow, Department of Maritime and Mechanical Engineering, Liverpool John Moores University, UK.
LU, Yu, Administrative Assistant, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
REN, Jun, Reader, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
SHAW, Edward, Researcher, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
SYMES, Stephen, Researcher, Department of Marine and Mechanical Engineering, Liverpool John Moores University, UK.
XU, Kun, Executive Editor, Journal of Transportation Information and Safety, China.
YANG, Yang, Research Fellow, Department of Maritime and Mechanical Engineering, Liverpool John Moores University, UK.
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 21st 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.

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

Propective authors are required to submit their manuscripts electronically 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.
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, or currently submitted for consideration elsewhere. Papers are submitted as one of two types:

- Regular paper: limited to 8 IEE 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](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:

- Indoor navigation and tracking methods
  - AoA, TOF, TDOA based localisation
  - RSSI and 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

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.

We are at [http://ipin2019.isti.cnr.it](http://ipin2019.isti.cnr.it) and on Twitter @Conferencelpin
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
Why should you attend?

- Perspective you get on local market
- Cross-sector business networking
- Find new collaboration partners
- Opportunity to present
- Strong business development opportunities

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

Examine the wider Smart City ecosystem

- Energy
- Infrastructure
- Security

Expand beyond the traditional ITS

- Crowdsourcing
- Safety systems
- Satellite-assisted mobility

Expected breakdown of delegates

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

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

www.itsworldcongress2019.com
Call for Papers
IEEE Transactions on Intelligent Vehicles

The IEEE Transactions on Intelligent Vehicles (T-IV) publishes peer-reviewed articles that provide innovative research concepts and application results, report significant theoretical findings and application case studies, and raises awareness of pressing research and application challenges in the areas of intelligent vehicles, and in particular in automated vehicles.

The IEEE Transactions on Intelligent Vehicles will commence publication in 2017, with 4 issues annually.

Prospective authors are invited to submit original contributions or survey papers for review for publication in T-IV. Topics of interest include (but are not limited to):

- Advanced Driver Assistance Systems
- Automated Vehicles
- Active and Passive Vehicle Safety
- Vehicle Environment Perception
- Driver State and Intent Recognition
- Eco-driving and Energy-efficient Vehicles
- Cooperative Vehicle Systems
- Collision Avoidance
- Pedestrian Protection
- Proximity Detection Technology
- Assistive Mobility Systems
- Proximity Awareness Technology
- Autonomous / Intelligent Robotic Vehicles
- IV related Image, Radar, Lidar Signal Processing
- Information Fusion
- Vehicle Control
- Human Factors and Human Machine Interaction
- IV technologies in Electric and Hybrid Vehicles
- Novel Interfaces and Displays
- Intelligent Vehicle Software Security

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

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

Editor-in-Chief: Prof. Ümit Özgüner, The Ohio State University, Department of ECE and Center for Automotive Research (CAR), Columbus, Ohio USA. (ozguner.1@osu.edu)
Conference Calendar

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)
  
  Submission due by: March 4, 2019

- **IEEE 22nd IEEE International Conference on Intelligent Transportation Systems (ITSC 2019)**
  
  *October 27-30, 2019*
  
  *Auckland, New Zealand*
  
  
  Submission due by: April 15, 2019

- **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 29-July 3, 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*
  
  
  *Submission due for the next event: April 10, 2019*

- **IEEE Vehicular Networking Conference (VNC)**
  
  
  *Submission due for the next event: 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**
  
  *July 28-May 1, 2019*
  
  *Kuala Lumpur, Malaysia*
  

- **IEEE Multi-Conference on Systems and Control**
  
  [http://www.ieeecss.org/conferences](http://www.ieeecss.org/conferences)

  
  *November 3-8, 2019*
  
  *Venetian Macao, Macau, China*
  

- **ITS World Congress 2019**
  
  *October 21-25, 2019*
  
  *Singapore*
  

- **Seminars and Dagstuhl Perspectives Workshops 2019**
  
  [https://www.dagstuhl.de/en/program/calendar/](https://www.dagstuhl.de/en/program/calendar/)

  
  *February 27-29, 2020*
  
  *Valletta, Malta*
  
  [http://www.visigrapp.org](http://www.visigrapp.org)

- **The 8th IEEE International Conference on Connected Vehicles and Expo (ICCVE)**
  
  *November 4-8, 2019*
  
  
  *Graz, Austria*
  
  *Submission due by: May 5, 2019*

- **Intertraffic Amsterdam 2020**
  
  *April 21-24, 2020*
  
  *Amsterdam, Netherlands*
  
- **SAE World Congress Experience**
  
  April 9-11, 2019  
  Detroit, Michigan, USA  
  [https://www.sae.org/attend/wcx/](https://www.sae.org/attend/wcx/)

- **5th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2019)**
  
  May 3-5, 2019  
  Heraklion, Crete-Greece  

- **IEEE International Conference on Robotics and Automation (ICRA 2019)**
  
  May 20-24, 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/)  
  Submission due by: April 12, 2019
Forthcoming papers on IEEE Transactions on ITS

Analysis and Prediction of Regional Mobility Patterns of Bus Travelers Using Smart Card Data and Points of Interest Data
Geqi Qi, Ailing Huang, Wei Guan, Linling Fan

Predicting the EEG Level of a Driver based on Driving Information
HyunSuk Kim, Daesub Yoon, Hyun Soon Shin, Cheong Hee Park

Efficient Data Dissemination for Urban Vehicular Environments
Moumena Chaqfeh, Hesham Elsayed, Abderrahmane Lakas

A Novel Motion Plane-based Approach to Vehicle Speed Estimation
Mahmoud Famouri, Zohreh Azimifar, Alexander Wong

Adaptive Rolling Smoothing with Heterogeneous Data for Traffic State Estimation and Prediction
Xiqun (Michael) Chen, Shuaichao Zhang, Li Li, Liang Li

Deep Reinforcement Learning for Event-Driven Multi-Agent Decision Processes
Kunal Menda, Yi-Chun Chen, Justin Grana, James Bono, Brendan Tracey, Mykel Kochenderfer, David Wolpert

Coordinated Transit Signal Priority Model Considering Stochastic Bus Arrival Time
Long Truong, Graham Currie, Mark Wallace, Chris De Gruyter, Kun An

Driver and Passenger Identification from Smartphone Data
Bashar Ahmad, Patrick Langdon, Jiaming Liang, Simon Godsill, Mauricio Delgado, Thomas Popham

Behaviour Monitoring Using Learning Techniques and Regular-Expressions Based Pattern Matching
Hyo-Sang Shin, Dario Turchi, Shaoming He, Antonios Tsourdos

Predictive Maneuver Planning for an Autonomous Vehicle in Public Highway Traffic
Qian Wang, Beshah Ayalew, Thomas Weiskircher

Multipath Mitigation for GNSS Positioning in Urban Environment Using Sparse Estimation
Julien Lesouple, Thierry Robert, Mohamed Sahmoudi, Jean-Yves Tourneret, Willy Vigneau

Hierarchical Fuzzy Logic Based Variable Structure Control for Vehicles Platooning
Yulin Ma, Zhixiong Li, Reza Malekian, Rui Zhang, Xianghui Song, Miguel Angel Sotelo
Forthcoming papers on IEEE Transactions on ITS

Traffic Light Recognition with High Dynamic Range Imaging and Deep Learning
Jian-Gang Wang, Lubing Zhou

A bi-level model to resolve conflicting transit priority requests at urban arterials
Mingtao Xu, Kun An, Zhirui Ye, Yuan Wang, Jiaxiao Feng, Jiahui Zhao

Two-Stage Stochastic Programming based on Particle Swarm Optimization for Aircraft Sequencing and Scheduling
Youkyung Hong, Byunghun Choi, Youdan Kim

Prediction-based Eco-Approach and Departure at Signalized Intersections with Speed Forecasting on Preceding Vehicles
Fei Ye, Peng Hao, Xuewei Qi, Guoyuan Wu, Kanok Boriboonsomsin, Matthew Barth

Cooperative Method of Traffic Signal Optimization and Speed Control of Connected and Automated Vehicles at Isolated Intersections
Biao Xu, Xuegang (Jeff) Ban, Yougang Bian, Wan Li, Jianqiang Wang, Shengbo Eben Li, Keqiang Li

Measuring motion of vulnerable road users relative to moving HGVs
Yanbo Jia, David Cebon

Stable and Flexible Multi-Vehicle Navigation based on Dynamic Inter-Target Distance Matrix
José Vilca, Lounis Adouane, Youcef Mezouar

Vehicle Localization at Intersection using Traffic Light Map
Chunxiang Wang, Hairu Huang, Yang Ji, Bing Wang, Ming Yang

Driving Performance Indicators of Electric Bus Driving Technique: Naturalistic Driving Data Multicriterial Analysis
Mikołaj Bartłomiejczyk

Realizing Railway Cognitive Radio: A Reinforcement Base-station Multi-agent Model
Cheng Wu, Yiming Wang, Zhijie Yin

Traffic Light Scheduling for Pedestrian-Vehicle Mixed-Flow Networks
Yi Zhang, Kaizhou Gao, Yicheng Zhang, Rong Su

A Real-Time WiFi-Bluetooth System for Pedestrian Network Monitoring, Classification and Data Extrapolation
Asad Lesani, Luis Miranda-Moreno
Forthcoming papers on IEEE Transactions on ITS

A Novel Strategy for Road Lane Detection and Tracking based on Vehicle’s Forward Monocular Camera
Max Mauro Santos, David Andrade, Felipe Bueno, William Omoto, Felipe Franco, Angelo Tusset, Sergio Okida, Artur Ventura, Saulo Carvalho, Rodrigo Amaral, Erick Margraf, João Neme, Felipe Farinelli, Rodrigo Adamshuk Silva

Overall Traffic Mode Prediction by VOMM Approach and AR Mining Algorithm with Large Scale Data
Chengjue Yuan, Xiangxiang Yu, Dewei Li, Yugeng Xi

New Multi-hop Clustering Algorithm for Vehicular Ad Hoc Networks
Degan Zhang, Hui Ge, Ting Zhang, Yu-ya Cui, Xiaohuan Liu, Guoqiang Mao

Traffic Data Reconstruction via Adaptive Spatial-temporal Correlations
Yang Wang, Yong Zhang, Xinglin Piao, Hao Liu, Ke Zhang

Enhancing Communication-Based Train Control Systems Through Train-to-Train Communications
Xiaoxuan Wang, Lingjia Liu, Tao Tang, Wenzhe Sun

Optimal Speed Control of a Heavy-Duty Vehicle in Urban Driving
Manne Held, Oscar Flärdh, Jonas Mårtensson

Calibrating a Bayesian Transit Assignment Model Using Smart Card Data
Mohadeseh Rahbar, Mark Hickman, Mahmoud Mesbah, Ahmad Tavassoli

Traffic Sign Recognition Using Kernel Extreme Learning Machines with Deep Perceptual Features
Sukirty Jain, Mona Singhal, Sanyam Shukla

Azim Eskandarian, Editor-in-Chief
Nicholas and Rebecca Des Champs Professor
Virginia Tech
Blacksburg, VA 24061, USA
Forthcoming papers on IEEE Transactions on IV

Increasing Motion Fidelity in Driving Simulators Using a Fuzzy-Based Washout Filter
Houshyar Asadi, Arash Mohammadi, Chee Peng Lim, Shady Mohamed, Darius Nahavandi, Saeid Nahavandi

Motion Planning of Autonomous Road Vehicles by Particle Filtering
Karl Berntorp, Tru Hoang, Stefano Di Cairano

Steering and Lateral Motorcycle Dynamics Estimation: Validation of Luenberger LPV Observer Approach
Pierre-Marie Damon, Dalil Ichalal, Hichem Arioui

String Stable Model Predictive Cooperative Adaptive Cruise Control for Heterogeneous Platoons
Ellen van van Nunen, Joey Reinders, Elham Semsar-Kazerooni, Nathan van de Wouw

Autonomous Driving Motion Planning with Constrained Iterative LQR
Jianyu Chen, Wei Zhan, Masayoshi Tomizuka

Merging in Congested Freeway Traffic using Multipolicy Decision Making and Passive Actor-Critic Learning
Tomoki Nishi, Prashant Doshi, Danil Prokhorov

Pedestrian Detection for Autonomous Vehicle Using Multi-spectral Cameras
Zhilu Chen, Ximing Huang

Predictive Control Framework for HEV: Energy Management and Free-Wheeling Analysis
Nicoleta Stroe, Sorin Olaru, Guillaume Colin, Karim Ben-Cherif, Yann Chamaillard

From the Racetrack to the Road: Real-time Trajectory Replanning for Autonomous Driving
John Subosits, Christian J. Gerdes

Road Edge Detection in All Weathers and Illuminations via Driving Video Mining
Zheyuan Wang, Guo Cheng, Jiang Yu Zheng

Multi-Model Approach to Personalized Autonomous Adaptive Cruise Control
Andrew Philip Bolduc, Longxiang Guo, Yunyi Jia

Electric Vehicle Power Propulsion System Control Based on Time-Varying Fractional Calculus: Implementation and Experimental Results
Mohammad Hassan Khooban, Meysam Gheisarnezhad, Navid Vafamand, Jalil Boudjadar

Lane Change Intention Awareness for Assisted and Automated Driving on Highways
Tobias Rehder, Alexander Koenig, Michel Goehl, Lawrence Louis, Dieter Schramm
Forthcoming papers on IEEE ITS Magazine

Special Issue on Practical Sensing Techniques for Intelligent Vehicles

Guest Editorial by
Zhixiong Li
Miguel Angel Sotelo
Fernando García Fernández
Reza Malekian
Zhaozheng Hu

FEATURES

Fog Computing for Detecting Vehicular Congestion, An Internet of Vehicles based Approach: A review
Malekian, Reza; Thakur, Arnav

Error-driven-based nonlinear feedback recursive design for adaptive NN trajectory tracking control of surface ships with input saturation
Ma, Yong; Zhu, Guibing; Li, Zhixiong

Trajectory Planning and Tracking for Autonomous Vehicle Based on State Lattice and Model Predictive Control
Zhang, Chaoyong; Chu, Duanfeng; Liu, Shidong; Deng, Zejian; Wu, Chaozhong; Su, Xiaocong

Understanding Individualization Driving States via Latent Dirichlet Allocation Model
Zhang, Yishi; Chen, Zhijun; Wu, Chaozhong; Ran, Bin

A Method for Vehicle Collision Risk Assessment through Inferring Driver’s Braking Actions in Near-Crash Situations
Li, Zhixiong; Peng, Liqun; Sotelo, Miguel Ángel; He, Yi; Ai, Yunfei

Traffic Speed Prediction under Non-recurrent Congestion: Based on LSTM Method and BeiDou Navigation Satellite System Data
Zhao, Jianlong; Gao, Yuan; Bai, Zhiming; Wang, Hao; Lu, Shuhan

A comparative study of state-of-the-art deep learning algorithms for vehicle detection
Wang, Hai; Yu, YiJie; Cai, Yingfeng; Chen, Xiaobo; Long, Chen; Liu, Qingchao

A Wireless Localization Algorithm with BPNN-MEA-QPSO for Connected Vehicle
Chen, Lei; Wang, Jiangfeng; Wang, Jian; Gao, Zhijun; Dong, Jiakuan; Yan, Xuedong

A novel rail inspection robot and fault detection method for the coal mine hoisting system
Tang, Chaoquan; Zhou, Gongbo; Gao, Xiaoxing; Shu, Xin; Chen, Pengpeng
Most popular papers on IEEE Transactions on ITS

1. **Wheel Defect Detection With Machine Learning**
   Gabriel Krummenacher ; Cheng Soon Ong ; Stefan Koller ; Seijin Kobayashi ; Joachim M. Buhmann

2. **Traffic Flow Prediction With Big Data: A Deep Learning Approach**
   Yisheng Lv ; Yanjie Duan ; Wenwen Kang ; Zhengxi Li ; Fei-Yue Wang

3. **Big Data Analytics in Intelligent Transportation Systems: A Survey**
   Li Zhu ; Fei Richard Yu ; Yige Wang ; Bin Ning ; Tao Tang

4. **A Review of Motion Planning Techniques for Automated Vehicles**
   David González ; Joshué Pérez ; Vicente Milanés ; Fawzi Nashashibi

   Joshua E. Siegel ; Dylan C. Erb ; Sanjay E. Sarma

Most popular papers on IEEE ITS Magazine

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

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

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

4. **Experience, Results and Lessons Learned from Automated Driving on Germany's Highways**
   Michael Aeberhard ; Sebastian Rauch ; Mohammad Bahram ; Georg Tanzmeister ; Julian Thomas ; Yves Pilat ; Florian Homm ; Werner Huber ; Nico Kaempchen

5. **In the Passenger Seat: Investigating Ride Comfort Measures in Autonomous Cars**
   Mohamed Elbanhawi ; Milan Simic ; Reza Jazar

Most popular episode on IEEE ITS Podcast in 2017

**ITS Podcast Episode 44: One of India’s first driverless cars**
## Officers and Committee Chairs

### Officers
- **President:** Miguel Angel Sotelo, U. of Alcalá, Spain
- **President-Elect:** Wei-Bin Zhang, U. of California, Berkeley, CA, USA
- **VP Admin Activities:** Ling Xi, Indiana University-Purdue University Indianapolis (IUPUI), USA
- **VP Conference Activities:** Meng Lu, Dynniq, The Netherlands
- **VP Financial Activities:** Matt Barth, University of California, Riverside, CA, USA
- **VP Member Activities:** Brendan Morris, University of Nevada, Las Vegas, NV, USA
- **VP Publication Activities:** Petros Ioannou, U. Southern California, USA
- **VP Technical Activities:** Javier Sanchez-Medina, U. Las Palmas de GC, Spain
- **VP Educational Activities:** Cristina Olaverri-Monreal, Johannes Kepler University, Linz, Austria
- **VP Standards Activities:** Nobuyuki Ozaki, Toshiba, Japan
- **Transactions on ITS Editor:** Azim Eskandarian, Virginia Tech, USA
- **Transactions on IV Editor:** Ümit Özgüner, Ohio State University, USA
- **ITS Magazine Editor:** Ljubo Vlacic, Griffith University, Australia
- **Newsletter Editor:** Shunsuke Kamijo, The University of Tokyo, Japan
- **ITS Podcast Editor:** Maryam Kaveshgar, National Technical University Of Ukraine, Ukraine

### Committee Chairs
- **Standing Committee on Awards:** Brendan Morris
- **Standing Committee on CONferences and Meetings:** Meng Lu
- **Standing Committee on Constitution and Bylaws:** Ling Xi
- **Fellow Evaluation Committee:** Mohan Trivedi
- **Standing Committee on Finance:** Matt Barth
- **ITSS History Committee:** Ümit Özgüner
- **Long-Range Planning Committee:** Christoph Stiller
- **Member Activities Committee:** Brendan Morris
- **Nominations and Appointments Committee:** Brendan Morris
- **Standing Committee on Publications:** Petros Ioannou
- **Standards Committee:** Nobuyuki Ozaki
- **Student Activities Committee:** Brendan Morris
- **Standing Committee on Technical Activities:** Javier Sanchez-Medina

---

**IEEE INTELLIGENT TRANSPORTATION SYSTEMS**

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

*Vol. 21, No. 2 April 2019*  
*Editor: Shunsuke Kamijo, kamijo@iis.u-tokyo.ac.jp*