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From the Editor
Shunsuke Kamijo

Dear readers, We have the first issue of 2021 fully loaded with interesting information.

We have an introduction for the ITS Society Educational Activities. We publish an announcement for Cooperative Interactive Vehicles Summer School 2021 and Smart Cities REU Program. President gives us a message for the new year.

We have CFPs for ITSC and IV conferences coming in 2021. In this issue, we include News of ITS Society Conferences. This issue also publishes the list of the forthcoming papers in Transaction on IV and ITS magazine. For 2021, we add the list of forthcoming papers on Open Journal of ITS in the newsletter.
Message from the IEEE ITS Society President

Dear IEEE ITS Society Members,

I would like to first wish you a happy and productive New Year. I would also like to extend my congratulations and warm welcome to Alex Bayen, Shunsuke Kamijo, Meng Lu, Jim Misener, and Matthias Schulze for their being elected as new members of the Board of Governors. We anticipate that they will add significant values to the leadership and decision-making for the IEEE ITS society.

2020 is marked as a special year as the COVID-19 pandemic has affected all aspects of our life as well as the society’s activities. As we continue together to navigate the uncertainties of the COVID-19, the ITS society is making steady progress on many fronts in order to provide valuable services to our members, our profession and our community.

The 23rd IEEE International Conference on Intelligent Transportation Systems and the 31st IEEE Intelligent Vehicles Symposium were successfully organized in virtual format in the fall 2020. While The two flagship conferences are forum to bring together researchers, scientists, engineers, and industry professionals to discuss innovative ideas and diverse topics on next generation of transportation technologies and applications. The organizers have worked very hard to bring the previously scheduled physical conferences into virtual events, while maintaining engaging, interactive, and digital experiences for conference attendees. Many people have contributed to paper reviewer and conference preparation. The rigorous paper review processes contributed to society’s efforts to maintain the high quality of our conference. On behalf of IEEE Intelligent Transportation Systems Society, I would like to thank the organizing Committees for both conferences to make the virtual conferences a reality.

Due to the pandemic, the ITS Society has been taking a deeper look at the ways to rearrange our flagship conferences as well as other activities to align these activities with the Society’s field of interests under the constraints we currently encounter. For the foreseeable future, the society will need to adjust the ways we will organize of our conferences and revitalize our technical activities.

2021 promises to be an exciting year and I’m looking forward to working with you all. As a progressive and dynamic professional organization, we will further develop technical programs and activities that provide valuable services to our members, our profession and our community. We look for broader involvement of our membership in societies activities and seeking ideas and suggestions from you for improvement of our technical activities and membership service. Together, through the ITS society activities, we can make lasting contributions to the advances in technology innovations for a sustainable transportation solution.

Wei-Bin Zhang
President, IEEE ITS Society
NEW!

- **Course: Robustness Analysis of Systems**
- **IEEE Continuing Education (CEU) Certificates**
ITS Podcast New Episodes and Information

Please, circulate this!

**ITS Podcast Episode 60:**
From Bicycle transport to Autonomous vehicle transport

Hello everyone,

We are here with you again after a pause in publication. Covid has affected all of us somehow.

Today we have our book review by Haluk, about Bicycles and their role in transportation. No matter how we have gone far in fulfilling our dreams of vehicle with or without a driver, the bicycle remains one of the main transportation devices.

But before that dear Baris is here with the news min-section for this episode. Let see what is new in the field of hi-tech technology, where there is a race for developing autonomous driving vehicles.

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.
Special Issue on: “Traffic Modelling and Control for Smart, Safe and Green Mobility”

Scope
Congestion, pollution and road accidents are just some of the phenomena that daily deteriorate the environment and the quality of life of citizens all over the world. In this context, a move towards sustainable mobility becomes more and more pressing, requiring the adoption of innovative strategies that allow, on the one hand, to meet the mobility needs of users and, on the other hand, to limit inefficiencies by reducing travel time and the negative impact on the environment, health and wellbeing of citizens.

In recent years, significant technological advances have led to increasingly efficient and reliable communication, data collection and transmission systems. Simultaneously, there has been a massive interest in the development of increasingly sophisticated vehicles with automated and semi-automated driving capabilities. These technological tools pave the way for new modelling and control approaches that can be applied to represent viable new technology solutions to these challenges.

This special issue aims to gather the most innovative approaches in the field of modelling and control of vehicular traffic, on both urban and freeway, whose objective is to improve its efficiency, reduce its negative impact on the environment, increase the safety of road users and livability for citizens.

Contributions for consideration in the Special Issue will include a paper proposed by Prof. Kara M. Kockelman (The University of Texas at Austin) titled “Energy implications of self-driving vehicles”.

The scientific areas include but are not limited to:

- Modelling and control of road traffic networks
- Urban mobility systems
- Control of connected and automated vehicles
- Smart Mobility
- Safety and security in transportation systems
- Technologies for control in transportation systems
- Planning and control problems in freight transportation networks
- Advanced and automated public transportation
- Human factors in the interaction of AVs with pedestrian/bicycles

Time line: Submission from November 1 2020 to April 30 2021. Accepted papers will be published upon acceptance as early access.

Paper Submission Link: https://mc.manuscriptcentral.com/oj-its (choose manuscript type TMSSG)

Guest editors:
Margarida Coelho University of Aveiro Portugal
Cecilia Pasquale University of Genova Italy
Claudio Roncoli Aalto University Finland
Marianne Vanderschuren University of Cape Town South Africa
Margarida Coelho ([margarida.coelho@ua.pt](mailto:margarida.coelho@ua.pt)) finished her PhD at Instituto Superior Técnico (IST) - Technical University of Lisbon, Portugal, in 2005. She is an Assistant Professor at the Department of Mechanical Engineering of the University of Aveiro, Portugal, and the Scientific Coordinator of the research on Transportation at the Centre for Mechanical Technology and Automation, where she also serves as Vice-Director. Her research interests are: impacts of transportation systems, intelligent mobility, life cycle assessment and active mobility.

Cecilia Pasquale ([cecilia.pasquale@edu.unige.it](mailto:cecilia.pasquale@edu.unige.it)) received the bachelor degree in Civil Engineering in 2009 from the Polytechnic University of Torino, Italy, the Master degree in Transports and Logistics Engineering and the Ph.D. degree in Monitoring of Systems and Environmental Risk Management from the University of Genova, Italy, in 2012 and 2016, respectively. Currently she is a Research Fellow at the University of Genova. Her research interests include modelling, optimization, and control methods applied to the field of transportation systems. She is member of the IFAC Technical Committees TC 7.4 on Transportation systems.

Claudio Roncoli ([claudio.roncoli@aalto.fi](mailto:claudio.roncoli@aalto.fi)) is Assistant Professor of Transportation Engineering at Aalto University, Finland. He completed his PhD degree in System monitoring and environmental risk management (2013) at University of Genova, Italy. Before joining Aalto University, he was a research assistant at University of Genova, Italy (2007-2013), a visiting research assistant at Imperial College London, UK (2011-2012), and a Postdoctoral Research Associate at Technical University of Crete, Greece (2013-2016). His research interests include real-time traffic management; modelling, optimisation, and control of traffic systems with connected and automated vehicles, as well as smart mobility and intelligent transportation systems.

Marianne Vanderschuren ([marianne.vanderschuren@uct.ac.za](mailto:marianne.vanderschuren@uct.ac.za)) has a BSc Eng (NHTV, Tilburg, NL), an MSc Eng (University of Delft, NL) and a PhD (University of Twente, NL). After working for TNO-Inro (Delft, NL) for over ten years as a senior researcher, she joined the Univeristy of Cape Town. Professor Vanderschuren is an academic in the Centre for Transport Studies and a Deputy Dean in the Faculty of Engineering and the Built Environment. Her work puts major emphasis on transport improvements for vulnerable road users, transport equity and sustainability, through the application of transport modelling and project assessment tools.
IEEE Transactions on ITS (IEEE T-ITS) seeks qualified editors

The IEEE Transactions on Intelligent Transportation Systems (IEEE T-ITS) is one of the IEEE ITS Society's flagship publications with a high Impact Factor of 6.319. Due to its outstanding quality, reputation, and technical strength, the transaction has been growing significantly with very high demand.

The transaction is currently looking for highly qualified experts in all ITS areas, particularly from Underrepresented and Female colleagues, to serve as Associate or Senior Editors. Besides demonstrated outstanding qualifications in this field, a minimum of five years (preferably more) post-PhD experience and prior review and editing experience with comparable journals or conferences are required for the Associate Editors. Whereas all applicants are welcome, please note the transaction has an extensive list of accomplished editors and currently is only looking for experts from these particular demographics to enhance its editorial board's quality and diversity.

To be considered for editorship, please submit a brief biographical sketch or resume to Ms. Miriam Snyder, the Editorial Assistant of the transaction at ieeeitstransactions@gmail.com, indicating your relevant experiences to ITS and its related fields.
Cooperative Interactive Vehicles

Summer School 2021

Lake Tahoe, California, USA

Announcement

We are pleased to announce the third edition of the Cooperative Interacting Vehicles Summer School in California, on the beautiful lake Tahoe, from August 1st to August 4th, 2021.

The Summer School on “Cooperative Interacting Vehicles” aims at gathering Ph.D. students and Young Professionals from Universities and Research Institutions for tutorials, keynotes, poster presentations and interactive workshop sessions on

- Cooperative Perception
- Cooperative Motion Planning
- Implicit & Explicit Interaction

It is jointly organized by MINES ParisTech (PSL University, France), Karlsruhe Institute of Technology (KIT, Germany) and UC Berkeley (USA). We gratefully acknowledge support from the Priority Program “Cooperative Interacting Automobiles” of the German Science Foundation (DFG), the IEEE Intelligent Transportation Systems Society (ITSS) and the International Research Chair Drive for All (MINES ParisTech).

Please book the date. The Summer School will provide housing, lunches and dinners in addition to the sessions; a bus service will optionally be offered (depending on demand) from Berkeley (that is easily reached by public transport from airports or downtown San Francisco). Instructions will be disclosed when the CIV 2021 website is up. There will be a phase of application to select participants: there are about 100 places this year. You can have a look at the website of the 2018 edition civ2018.org.

We are looking forward to a fruitful and inspiring event.

Dr. Wei-Bin Zhang (UC Berkeley)
Prof. Christoph Stiller (KIT)
Prof. Arnaud de La Fortelle (MINES ParisTech)
Smart Cities are no longer a futuristic dream of science fiction writers but they are emerging as a reality in research labs, industry, and increasingly, in everyday life. UNLV’s REU Smart Cities aims to educate and inspire undergraduate researchers to address the challenges of building intelligent, safe, and secure Smart Cities with a focus on mobility.

**Research Areas**
- Intelligent Transportation System (ITS)
- Automated Vehicles (AV)
- Vehicle-To-Everything Communication (V2X)

**Program Features**
- 10-week research program: June 3 - Aug 7, 2021
- $6,000 stipend
- Mentored by UNLV faculty member
- Seeking undergraduate applicants from a broad array of diverse backgrounds who are majoring in electrical or computer engineering or CS

**Important Dates**
- Application Deadline: February 12, 2021
- Notification of acceptance: March 1, 2021
- Program Dates: June 3 - August 7, 2021

**Covid-19 Impact:** While we plan on having a full research program for Summer 2021, state and campus policy will dictate whether the program is in-person or remote.
ITS Society Conferences

2020 was an unprecedented year. Despite Covid-19 forcing changes to our conference line-up, we were able to produce high quality meeting in virtual format. While 2021 is sure to bring better times, it is still unclear when we will resume more typical meetings. Until then, we will continue monitoring conditions and following local health recommendations.

ITS Conference Calendar

- [July 11-15] IV2021 Nagoya, Japan – Submission deadline: February 1
- [Sep 19-22] ITSC2021 Indianapolis, USA – Submission deadline: March 15

2021 Conference Organizers Wanted
If you are interested in organizing a meeting, we are soliciting proposals for the 2021 lineup. While we have typically made selection three years in advance and rotated between the three regions of Americas, Asia/Pacific, Europe/Africa, for our flagship IV and ITSC meetings we currently are accepting all proposals for 2023 and 2024.

The full listing of ITSS sponsored meeting can be found online as well as material to help you plan a proposal. For further information please contact vp_conferences@ieee-itss.org.
32nd IEEE Intelligent Vehicles Symposium

JULY 11-15, 2021
(Nagoya University)
NAGOYA UNIVERSITY
NAGOYA, JAPAN

Important Dates

February 1, 2021
Paper submission deadline

April 5, 2021
Paper acceptance notification

May 10, 2021
Camera-ready upload deadline

Topics of interest

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

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

iv21@intergroup.co.jp  https://2021.ieee-iv.org/
The 24th IEEE International Conference on Intelligent Transportation Systems (ITSC 2021) is the annual flagship conference sponsored by the IEEE Intelligent Transportation Systems Society. IEEE ITSC 2021 welcomes articles and presentations in the field of Intelligent Transportation Systems (ITS), conveying new developments in theory, analytical and numerical simulation and modeling, experimentation, advanced deployment and case studies. ITSC 2021 particularly invites and encourages prospective authors to share their recent work, findings, perspectives, and developments as related to implementation and deployment of advanced ITS applications.

**TOPICS OF INTEREST**

The topics of interest include and but are not limited to the following:

- Advanced public transportation management
- Advanced transportation safety systems
- AI and deep learning in ITS
- Air, road, and rail traffic management
- Artificial transportation systems
- Behavioral modeling in ITS
- Connected and automated vehicles
- Cooperative driving technologies
- Cyber-physical-social systems for ITS
- Driver and traveler support systems
- Education in ITS
- Electrified transportation systems
- Human factors and HMI
- ITS field tests and implementation
- Management of incidents and evacuation
- Modeling, simulation, and detection of vulnerable road users and animals
- Naturalistic driving datasets and data analytics
- New trends in ITS
- Parallel learning and parallel systems
- Ports, waterways, and vessel traffic management
- Public policy, and regulatory and societal issues in ITS
- Security, privacy and safety systems
- Sensors, detectors and actuators in ITS
- Shared and smart mobility
- Traffic theory for ITS
- Transportation networks
- Vehicle localization and autonomous navigation
- Vision and environment perception
- V2X communications in ITS

**CONFERENCE ORGANIZING COMMITTEE**

**General Chair:** Yaobin Chen  
Indiana Univ.-Purdue Univ. Indianapolis, USA

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**Industrial Sessions Chair**  
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Kazuya Takeda, Nagoya University, Japan

**Special Sessions Chair**  
Shengbo Li, Tsinghua University, China

**Publications Chair**  
Petros Ioannou, Univ. of Southern California, USA

**PAPER SUBMISSION**

**Regular paper submission:** Complete manuscripts in PDF must be submitted electronically. Detailed instructions for authors will be provided at the conference website: 2021.ieee-itsc.org.

**Proposal submission for special sessions and workshops/tutorials/industrial sessions:** Proposals should include a one-page summary of the session with authors’ name, affiliation, title of the abstract with five extended abstracts (less than 1000 words). Please contact us at: contact@2021.ieee-itsc.org or visit the conference website if you have any questions.

**IMPORTANT DATES (More detailed information can be found on the conference website)**

- **February 15, 2021** – Proposal due for special sessions
- **March 15, 2021** – Initial submission deadline for regular and special session papers
- **March 31, 2021** – Proposal due for workshops/tutorials/industrial sessions
- **June 1, 2021** – Notification of paper acceptance
- **June 15, 2021** – Final paper submission deadline
Forthcoming papers on IEEE Transactions on IV

**Shadow Detection and Removal for Illumination Consistency on the Road**
Wang, Chunxiang; Xu, Hanqing; Zhou, Zhiyu; Deng, Liuyuan; Yang, Ming

**An Attribute-Isolated Secure Communication Architecture for Intelligent Connected Vehicle**
Han, Mu; Wan, Ailan; Zhang, Fengwei; Ma, Shidian

**The safety potential of lane keeping assistance and possible actions to improve the potential**
Utriainen, Roni; Pöllänen, Markus; Liimatainen, Heikki

**Towards Computationally Efficient and Realtime Distracted Driver Detection with mobileVGG Network**
Baheti, Bhakti Vilas; Talbar, Sanjay; Gajre, Suhas

**Powered Two-Wheeler detection using crowdsourced smartphone data**
Barmpounakis, Emmanouil; Vlahogianni, Eleni I

**AI-IMU Dead-Reckoning**
Brossard, Martin; Bonnabel, Silvère; Barrau, Axel

**A Comprehensive Study of the Parameters Impacting the Fuel Economy of Plug-in Hybrid Electric Vehicles**
Taherzadeh, Erfan; Radmanesh, Hamid; Mehrizi-sani, Ali

**Intelligent Vehicle Self-Localization Based on Double-Layer Features and Multilayer LIDAR**
Wang, Zhuping; Fang, Jian; Zhang, Hao; Vlacic, Ljubo

**Adaptivity-Enhanced Preview Following System for Autonomous Vehicle under Various Lane Curvatures and High Speeds**
Huang, Guoming; Yuan, Xiaofang; Shi, Ke; Liu, Zhixian; Wu, Xiru

**Robust Detection of Infrared Maritime Targets for Autonomous Navigation**
Wang, Bin; Benli, Emrah; Motai, Yuichi; Dong, Lili; Xu, Wenhai

**Advanced Vehicle Control with an Optimized Speed Profile using Road Characteristics for Road Departure Prevention**
Kang, Yong-suk; Kim, Troy Jaisohn; Ferris, John

**Learning-Based Real-Time Process-Aware Anomaly Monitoring for Assured Autonomy**
Patel, Naman; Saridena, Apoorva Nandini; Choromanska, Anna; Krishnamurthy, Prashanth; Khorrami, Farshad
Forthcoming papers on IEEE Transactions on IV

Autonomous Measurement Outlier Detection and Exclusion for Ground Vehicle Navigation with Cellular Signals and IMU
Kassas, Zak (Zaheer) M.; Maaref, Mahdi

Methods and Models for Simulating Autonomous Vehicle Sensors
Elmquist, Asher; Negrut, Dan

Securing Vehicle-to-Everything (V2X) Communication Platforms
Hasan, Monowar; Mohan, Sibin; Shimizu, Takayuki; Lu, Hongsheng

Real-Time Maneuver Prediction Using LSTM
Khairdoost, Nima; Shirpour, Mohsen; Bauer, Michael; Beauchemin, Steven

A Minimum Principle-Based Algorithm for Energy-Efficient Eco-Driving of Electric Vehicles in Various Traffic and Road Conditions
Shen, Daliang; Karbowski, Dominik; Rousseau, Aymeric
Forthcoming papers on IEEE ITS Magazine

ITSM Edition 01/2021
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Commercial Cloud Computing for Connected Vehicle Applications in Transportation Cyber-Physical Systems: A Case Study
Salek, M Sabbir; Deng, Hsien-Wen; Rahman, Mizanur; Chowdhury, Mashrur; Shue, Mitch

Digital Quadruplets for Cyber-Physical-Social Systems based Parallel Driving: From Concept to Applications
Liu, Teng; Xing, Yang; Tang, Xiaolin; Wang Hong; Yu, Huilong; Wang, Fei-Yue

Driving Data Dissemination: The “Terms” Governing Connected Car Information
Suo, Dajiang; Siegel, Josh; Soley, Alexander

Traffic Control System Technologies for Road Vehicles: A Patent Analysis
Durmuşoğlu, Alptekin; Durmuşoğlu, Unutmaz, Zeynep Didem

Empirical Validation of Network Learning with Taxi GPS Data from Wuhan, China
Chow, Joseph; Xu, Susan; Xie, Qian; Liu, Xintao

Modeling Location Choice of Taxi Drivers for Passenger Pick-Up Using GPS Data
Demissie, Merkebe; Kattan, Lina; Phithakkitnukoon, Santi; Homem de Almeida Correia, Gonçalo; Veloso, Marco; Bento, Carlos

Mapping for Autonomous Driving: Opportunities and Challenges
Wong, Kelvin; Gu, Yanlei; Kamijo, Shunsuke

Eco-driving Operation of Connected Vehicle with V2I Communication among Multiple Signalized Intersections
Lin, Qingfeng; Li, Shengbo Eben; Xu, Shaobing; Du, Xuejin; Yang, Diange; Li, Keqiang

Real-Time Multiplexing of Mixed-Criticality Data Streams for Automotive Multi-Core Test Systems
Nager, Markus; Baunach, Marcel; Priller, Peter; Macher, Georg

A method for making a fair evaluation of driving styles in different scenarios with recommendations for their improvement
Corcoba Magaña, Víctor; García Pañeda, Xabiel; García Tuero, Alejandro; Pozueco, Laura; García, Roberto; Melendi, David; Rionda, Abel

Fractional-Order Retinex for Adaptive Contrast Enhancement of Under-Exposed Traffic Images
Pu, Yi-Fei; Zhang, Ni; Wang, Zheng-Ning; Wang, Jian; YI, Zhang; Wang, Yan; Zhou, Ji-Liu
The General System Model of Vehicle TDM Effect on Urban Road Traffic
Zhang, Peng; Lei, Fangshu; Ma, Yilin; Lu, Lu; Zhu, Guangyu

Drivers’ Phone Use Behavior at Red Traffic Signals
Jin, Sheng; Alagbé, Jérémie; Ma, Dongfang

Security and Privacy Issues in Intelligent Transportation Systems: Classification and Challenges
Munir, Arslan; Hahn, Dalton; Behzadan, Vahid

Automatic Vehicle Detection with Roadside LiDAR Data under Rainy and Snowy Conditions
Wu, Jianqing; Xu, Hao; Zheng, Jianying; Zhao, Junxuan

Pedestrian Recognition using Cross-Modality Learning in Convolutional Neural Networks
Pop, Danut; Rogozan, Alexandrina; Nashashibi, Fawzi; Bensrhair, Abdelaziz

A Qualitative Analysis of Vehicle Positioning Requirements for Connected Vehicle Applications
Williams, Nigel; Barth, Matthew
Forthcoming papers on Open Journal of ITS

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

Recent papers


Forthcoming papers on Open Journal of ITS


Forthcoming papers on Open Journal of ITS


Forthcoming papers on Open Journal of ITS

Current and upcoming special issues:


**Traffic Modelling and Control for Smart, Safe and Green Mobility.** Guest Editors: Margarida Coelho, Cecilia Pasquale, Claudio Roncoli, and Marianne Vanderschuren. Submission Deadline: November 1, 2020 to April 30, 2021.

**5G and beyond technologies for vehicular applications.** Guest Editors: Claudia Campolo, Aaron Ding, Pardis Khayyer, and Peter Han Joo Chong. Submission Deadline: January 31, 2021.


**ITS for Public Transportation.** Guest Editors: Abdulla Al-Kaff and Erik Jenelius. Submission: September 1 to April 30, 2021.


**Smart Transportation Cyber-Physical Systems Combined with Intelligent Logistic Models.** Guest Editors: Oriol Lordan, Mincong Tang, Sabah Mohammed and Tai hoon KIM. Submission: September 2020. Publication: December 2020
Most popular papers on IEEE Transactions on ITS

5 most frequently accessed documents for this publication in IEEE Xplore

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

2. T-GCN: A Temporal Graph Convolutional Network For Traffic Prediction
   Ling Zhao;Yujiao Song;Chao Zhang;Yu Liu;Pu Wang;Tao Lin;Min Deng;Haifeng Li

3. Autonomous Vehicles That Interact With Pedestrians: A Survey Of Theory And Practice
   Amir Rasouli ; John K. Tsotsos

4. Online Incremental Machine Learning Platform For Big Data-Driven Smart Traffic Management
   Dinithi Nallaperuma ; Rashmika Nawaratne ; Tharindu Bandaragoda ; Achini Adikari ; Su Nguyen ; Thimal Kem- pitiya ; Daswin De Silva ; Damminda Alahakoon ; Dakshan Pothuhera

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

Most popular papers on IEEE ITS Magazine

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

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

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

4. Dynamical Modeling And Distributed Control Of Connected And Automated Vehicles: Challenges And Opportunities
   Shengbo Eben Li;Yang Zheng;Keqiang Li;Yujia Wu;J. Karl Hedrick;Feng Gao;Hongwei Zhang

5. Three Decades Of Driver Assistance Systems: Review And Future Perspectives
   Klaus Bengler;Klaus Dietmayer;Berthold Farber;Markus Maurer;Christoph Stiller;Hermann Winner
## Officers and Publication Editors

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**INTELLIGENT TRANSPORTATION SYSTEMS**

[https://www.ieee-itss.org/](https://www.ieee-itss.org/)

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