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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

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

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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

From the Editor
Shunsuke Kamijo

Dear readers, We have the fourth issue of 2020 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.

Due to Covid-19, many of our conferences have been cancelled or moved to virtual. 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.
Enroll now! NEW Job Offers section! IEEE Continuing Education (CEU) Certificates

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 Vehcles
  - 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

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ITS Podcast New Episodes and Information

Please, circulate this!

ITS Podcast Episode 59: Philosophy and Intelligent vehicles

Happy July dear subscribers
I hope everyone is safe and sound. Some of us have started our offices, some still work from home. Anyhow our podcast will bring you some new details, information and new insights from around the world about our field of work.
I hope you enjoy it.

We start our episode with Baris. He will inform us about the latest news and happenings in the field of ITS.

Haluk has a book to discuss with us – Guide to Automotive Connectivity and Cybersecurity, Authors: Möller, Dietmar P.F., Haas, Roland E.

For this Episode, Dr. Giulio Mecacci from TUDelft has accepted our invitation to be our special guest. In this interview he will talk about his research, his final findings and his overall opinion about automated cars.
He is a philosopher. His views are very interesting for our friends from the field of technology.

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.
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)
## IEEE ITS SOCIETY CONFERENCES

**CALL FOR PARTICIPATION**

<table>
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<th>Dates</th>
<th>Registration Information</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISTS2020</td>
<td>Nov 3-5</td>
<td>Register Now to attend three days of sessions.</td>
<td><a href="https://forum-ists2020.org/">https://forum-ists2020.org/</a></td>
</tr>
<tr>
<td>ISI2020</td>
<td>Nov 9-10</td>
<td>Register Now to attend two days of sessions.</td>
<td><a href="http://www.isi-conf.org/">http://www.isi-conf.org/</a></td>
</tr>
</tbody>
</table>
Call for Papers

32nd IEEE Intelligent Vehicles Symposium

JULY 11-15, 2021
(Tentative)
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

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/
In addition to exciting technical symposia, panels and exhibitions, IEEE IV 2021 will feature a series of half and full-day workshops/tutorials. Accordingly, we invite the submission of workshop/tutorial proposals. The aim of the conference workshops/tutorials is to emphasize emerging topics not specifically covered in the main symposia. Workshops/tutorials should highlight current topics related to technical and business issues in communications and networking, and should include a mix of regular papers presentations, invited keynote speeches, and panels that encourage the participation of attendees in active discussion.

WORKSHOP/TUTORIAL PROPOSAL FORMAT
Each proposal (max. 5 pages) should include (please follow the following order in your proposal):
• Title of the workshop/tutorial
• Organizers (names, affiliation, and contact information)
• Scope and topics (max 1 page)
• Rationale (max 1 page)
  ◦ Why is the topic current and important?
  ◦ Why will the workshop attract a significant number of submissions of good quality?
  ◦ Why will the workshop attract a large number of attendees, in addition to the authors?
  ◦ How does the workshop differs from others, i.e. related workshops & conferences of similar topic?
• A short biography of the organizers (up to 200 words per organizer)
• Names of potential invited speakers
• Duration: (Half-day, Full-day and tentative schedule)
• Website address (if available - will be required later if the proposal is accepted)
• If appropriate, a description of past versions of the workshop/tutorial, including the number of submitted and accepted papers, number of attendees, etc. If a similar workshop/tutorial has been organized at recent IEEE IV, please explain the similarities and differences.

WORKSHOP/TUTORIAL PROPOSAL SUBMISSION
Proposal submissions should be submitted as a single PDF file online via PaperCept at the following link: https://its.papercept.net/conferences/scripts/start.pl
Proposals that address exciting topics in creative formats that generate lively interactions among participants are highly encouraged. Examples include facilitating multi-disciplinary discussions across academicians, practitioners, and policymakers leading to high impact and transformative research. Conference content will be submitted for inclusion into IEEE Xplore.

PREPARATION AND ORGANIZATION TIMELINE
• Proposal Submission Deadline: November 30th, 2020
• Notification of Selection: December 28th, 2020
• Website for each workshop/tutorial on: January 11th, 2021
• Deadline for workshop paper submission: March 15th, 2021 (firm deadline, no extension)
• Acceptance/rejection announcement: April 25th, 2021
• Final workshop papers due: May 31st, 2021
• Workshop/Tutorial day: July 11, 2021

Please address all questions to the IV 2021 Workshops Chairs:
• Dr. Alexander Carballo, Nagoya University, Japan (alexander@q.sp.m.is.nagoya-u.ac.jp)
• Dr. Simon Thompson, Tier IV, Inc., Japan (simon.thompson@tier4.jp)
• Dr. Jan Becker, Apex.AI, USA and Stanford University, USA (jan.becker@stanford.edu)
• Dr. Kiyosumi Kidono, Toyota Central R&D Labs, Japan (kidono@mosk.tytlabs.co.jp)
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 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  
**General Co-Chairs**  
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Miguel Angel Sotelo, University of Alcala, Spain  
Nanning Zheng, Xi’an Jiaotong University, China  
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Azim Eskandarian, Virginia Tech, USA  
**Industrial Sessions Chair**  
Rini Sherony, Toyota Motor North America R&D  
**Program Chair:** Lingxi Li  
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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.

**Proposition 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
Dear partners,

Bosch Engineering Center Cluj is happy to invite students to the fourth edition of Bosch Future Mobility Challenge, competition that will take place on 16th May 2021 in Cluj-Napoca, Romania. The competition is dedicated to bachelor or master students interested in developing autonomous driving algorithms on 1/10 scale vehicles that Bosch will provide.

In 2021 the competition will have participants from over six European countries, and the first prize of 4500 EUR can only motivate students to create the best driving autonomous car. The accommodation at the final phases, in Cluj, will be ensured by Bosch.

It would be our pleasure to have student teams from your university and even more if you would be their mentor.

➢ What the students need to do for the 2021 edition? Team up, find a mentor and join the challenge!

Registration is open until the 8th of November 2020 on www.boschfuturemobility.com

In the meantime, you can get a glimpse of what the atmosphere of the 2019 finals was, in the after-movie at: https://boschfuturemobility.com/videos-2019/. Bosch Future Mobility Challenge 2020 finals will take place, this year, on the 18th of October, with the after-movie coming very soon on the same website.

For any additional information please contact us at: futuremobilitychallenge@bosch.com

We can’t wait to see the student teams’ motivation and enthusiasm in the interviews!

Ionut Muntean

Bosch Future Mobility Challenge Project Manager
Bosch Engineering Center Cluj
Conference Calendar

Please check the websites to get updated information in the difficult times with the corona pandemic. All IEEE operations are continuing. Most IEEE conferences and meetings have already been postponed or replaced with virtual meetings.

IEEE Intelligent Transportation Systems Society’s Sponsored Conferences

- **IEEE Intelligent Vehicles Symposium (IV’20)**
  
  *October 19- November 13, 2020*
  
  *Virtual*
  

- **IEEE Forum on Integrated and Sustainable Transportation System (FISTS)**
  
  *November 03-05, 2020*
  
  *Virtual Conference*
  

- **The 5th International Conference on Universal Village (IEEE UV2020)**
  
  *October 24-27, 2020*
  
  *Virtual Conference*
  
  [http://universalvillage.org](http://universalvillage.org)

- **IEEE Intelligent Conference on Intelligence and Security Informatics (ISI)**
  
  *November 9-10, 2020*
  
  *Virtual Conference*
  

- **IEEE Vehicular Networking Conference (VNC)**
  
  *December 16-18, 2020*
  
  *Virtual Conference*
  

  *Submission due: October 09, 2020*
Other Conferences

- **The 24th International Symposium on Transportation and Traffic Theory (ISTTT24)**
  
  *July 24-26, 2021*
  
  *Beihang University, Beijing, China*
  

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

- **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)**
  
  *October 25-November 25, 2020*
  
  *On-Demand Conference*
  

- **Seminars and Dagstuhl Perspectives Workshops 2020**
  
  [https://www.dagstuhl.de/en/program/calendar/](https://www.dagstuhl.de/en/program/calendar/)

  
  *February 08-10, 2021*
  
  *Virtual Conference*
  
  [http://www.visigrapp.org](http://www.visigrapp.org)

- **Intertraffic**
  
  *March 23-26, 2021*
  

- **SAE World Congress Experience**
  
  *April 13-15, 2021*
  
  *Detroit, USA*
  
  [https://www.sae.org/attend/wcx/](https://www.sae.org/attend/wcx/)

- **7th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2020)**
  
  *April 28-30, 2021*
  
  *Prague, Czech Republic*
  
Submission due: November 30, 2020

- 21st International Conference on Image Analysis and Processing
  September 13 -17, 2021
  Lecce, Italy
  https://www.iciap2021.org/
  Submission due: May 05, 2021
Forthcoming papers on IEEE Transactions on IV

Looking at Hands in Autonomous Vehicles: A ConvNet Approach using Part Affinity Field
Kevan Yuen, Mohan M. Trivedi

Multi-objective optimal robust seat suspension control of off-road vehicles in the presence of disturbance and parametric uncertainty using metaheuristics
Hamid Taghavifar, Subhash Rakheja

Enhancing Driver Distraction Recognition Using Generative Adversarial Connectionist Models
Chaojie Ou, Fakhri Karray

Implicit Personalization in Driving Assistance: State-of-the-Art and Open Issues
Dewei Yi, Liang Hu, Jinya Su, Cunija Liu, Mohammed A Qummus, Wen-Hua Chen

Tractor-Trailer Vehicle Trajectory Planning in Narrow and Cluttered Environments with an Adaptively Homotopic Optimal Control Method
Bai Li, Tankut Acarman, Youmin Zhang

Generalized Approach for Simulating Rain Effects on Sensor Data in Real and Virtual Environments
Sinan Hasirlioglu, Andreas Riener

Personalized Driver Workload Estimation Using Deep Neural Network Learning from Physiological and Vehicle Signals
Yongquen Xie, Yi L Murphey, Dev Kochhar

Ground Plane Polling for 6DoF Pose Estimation of Objects on the Road
Akshay Rangesh, Mohan M Trivedi

Pedestrian Trajectory Prediction Combining Probabilistic Reasoning and Sequence Learning
Yang Li, Xiao-Yun Lu, Jianqiang Wang, Keqiang Li, Tianyu Shi

RADARODO: Ego-Motion Estimation from Doppler and Spatial Data in RADAR Image
Chris D Monaco, Sean Brennan

Clustering of Driving Encounter Scenarios Using Connected Vehicle Trajectories
Wenshuo Wang, Aditya Ramesh, Ding Zhao

Real-time State-of-charge Tracking Embedded in the Advanced Driver Assistance System of Electric Vehicles
Kaveh Sarrafan, Kashem Muttaqi, Danny Sutanto
Forthcoming papers on IEEE Transactions on IV

**Adversarial Learning and Self-Teaching Techniques for Domain Adaptation in Semantic Segmentation**
Umberto Michieli, Matteo Biasetton, Gianluca Agresti, Pietro Zanuttigh

**Exploring Contributing Factors of Hazardous Events in Construction Zones using Naturalistic Driving Study Data**
Yohan Chang, Nipijyoti Bharadwaj, Praveen Edara, Carlos Sun
FEATURES

Test and Evaluation of Driverless Vehicles’ Intelligence: The “Tsinghua Lion” Case Study
Sotelo, Miguel Ángel; Ma, Yulin; Li, Zhixiong

Developing and testing robust autonomy: The USyd Campus Dataset
Zhou, Wei; Berrio Perez, Julie Stephany; De Alvis, Charika; Shan, Mao; Worrall, Stewart; Ward, James; Nebot, Eduardo

Improved Outdoor Localization Based on Weighted Kullback-Leibler Divergence for Measurements Diagnosis
Al Hage, Joelle; El Badaoui El Najjar, Maan

Advances in the Hierarchical Emergent Behaviors (HEB) Approach to Autonomous Vehicles
Roca, Damian; Milito, Rodolfo; Nemirovsky, Mario; Valero, Mateo

Green-initiative for Realizing Adaptive Traffic-lights by Exploiting Smart-antenna Technology (GREATEST)
Joyo, Ambreen; Yaqub, Raziq; Heidary, Kaveh; Madamopoulos, Nicholas

An Accurate Solution To The Cardinality-based Punctuality Problem
Cao, Zhiguang; Wu, Yaoxin; Rao, Akshay; Klanner, Felix; Erschen, Stefan; Chen, Wei; Zhang, Le; Guo, Hongliang

Ecological Advanced Driver Assistance System for Optimal Energy Management in Electric Vehicles
Sajadi-Alamdari, Seyed Amin; Voos, Holger; Darouach, Mohamed

Optimal Periodic Control of Connected Multiple Vehicles with Heterogeneous Dynamics and Guaranteed Bounded Stability
Li, Shengbo Eben; Zhang, Xiaoxue; Li, Renjie; Wang, Zhitao; Chen, Hailiang; Xin, Zhe

Automation Kit for Dual-Mode Military Unmanned Ground Vehicle for Surveillance Missions
Naranjo, Jose; Jimenez, Felipe; Anguita, Manuel; Rivera, José

Positioning Accuracy Improvement of Automated Guided Vehicles Based on A Novel Magnetic Tracking Approach
Dai, Houde; Su, Shijian; Zeng, Xianping; Song, Shuang; Lin, Mingqiang; Yang, Wanan; Hu, Chao
Forthcoming papers on IEEE ITS Magazine

SPECIAL SECTION on Data-Driven Optimisation for Transportation Logistics & Smart Mobility Applications

From Particles to Self-Localizing Tracklets: a Multi-Layer Particle Filter based Estimation for Dynamic Grid Maps
Vatavu, Andrei; Rahm, Melissa; Govindachar, Suresh; Krehl, Gunther; Mantha, Abhishek; Bhavsar, Sagar; Schier, Manuel; Peukert, Janis; Maile, Michael

A Sequential Clustering Method for the Taxi Dispatching Problem Considering Traffic Dynamics
Alisoltani Dehkordi, Negin; Zargayouna, Mahdi; Leclercq, L.

Statistical and Nature-inspired Modelling of Vehicle Flows by Finite Mixtures of Simple Circular Normal Distributions
Hasal, Martin; Kromer, Pavel; Nowakova, Jana; Heckenbergerova, Jana; Musilek, Petr

Modeling and Analyzing Complex Factors Influencing Metro Station Ridership: An Approach based on General Estimating Equation
Zhao, Yang; He, Yuxin; Tsui, Kwok Leung

Shared Autonomous Mobility-on-Demand: Learning-based approach and its performance in the presence of traffic congestion
Gueriau, Maxime; Cugurullo, Federico; Acheampong, Ransford A.; Dusparic, Ivana

Disruption Management for Dial-A-Ride Systems
Ramasamy Pandi, Ramesh; Ho, Song Guang; Nagavarapu, Sarat Chandra; Tripathy, Twinkle; Dauwels, Justin
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

Amir Rasouli ; John K. Tsotsos

3. 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

Yisheng Lv ; Yanjie Duan ; Wenwen Kang ; Zhengxi Li ; Fei-Yue Wang

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

Most popular papers on IEEE ITS Magazine

5 most frequently accessed documents for this publication in IEEE Xplore

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

2. Big Data Perspective For Driver/Driving Behavior
Ramazan Terzi ; Seref Sagiroglu ; Mustafa Umut Demirezen

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