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From the Editor
Javier Sanchez-Medina

Dear readers, here you have the Spring issue the Newsletter, with a lot of different calls we believe of your interest. There are international conferences and Special Issue CFPs, like our flagship conference ITSC2016, this time to happen in Rio, right after Halloween! Will we see you there?

It must be highlighted that we are just about of publishing the very first IEEE Transactions on Intelligent Vehicles. You cannot miss it!

Please, send us your suggestions! We are eager to know what are we doing well and what potential contents would be useful for our community! You can use our Google Form for that! Don’t forget including your email address so we can contact you back!

Finally, we have sad note to say goodbye to our colleague and long time volunteer, dear prof. Daniel Dailey. He contributed to the birth and growth of the IEEE ITS Society all the way, and he will always be in this community’s heart and memory.
On behalf of the IEEE Intelligent Transportation System Society, we are deeply saddened to inform you of the passing of Professor Dan Dailey in the last week of March. Dan was Professor of Electrical Engineering at the University of Washington and the founder of UW's Intelligent Transportation Systems Lab. Dan played a key role in forming the ITS society over a decade ago and continued to be a major contributor to our society and the community in many different leadership roles. Dan will be very truly missed as a colleague, a mentor, and a friend. He will always be in this community’s heart and memory.

Daniel Zeng, President, IEEE ITS Society
Matt Barth, Past President, IEEE ITS Society
The president of the IEEE Intelligent Transportation Systems Society has a two-year term. Since January 1, 2016, the former President Matt Barth has become Past President and Daniel Zeng has become President.

Thank You for Two Exciting and Rewarding Years!
Matt Barth

Dear IEEE ITS Society members:

I am writing to you for the last time in my capacity as President of the ITS Society.

When I look back over the last two years, I think our society has grown in all the right directions and we have accomplished quite a bit. In 2014, we prepared and passed our quinquennial IEEE society review with flying colors. Many of the unique elements of our society were highlighted at the IEEE Technical Activities Board (TAB) meetings. Our conferences have consistently continued to grow and the quality has been quite high. Our current publications are also quite strong. I am particularly proud that we were able to launch a new Transactions on Intelligent Vehicles that will have its first issue in just a few months. We have also expanded our chapters around the world and have gotten many more students involved. This will only improve as our new position of Vice President of Education starts in 2016.

I am deeply grateful to the members of the ITS Society’s Board of Governors and the Executive Committee. All of them have offered their valuable time as volunteers to a great society. The ITS Society leadership team and I are also deeply grateful to the numerous ITS Society members who serve as reviewers and editors for our conferences and journals; as organizers of the ITS chapters, and conference events; as liaisons to a range of professional entities within and outside of the IEEE; as members in various ITS Society committees; and so much more!

Being President was an honor and an exciting experience for me. I am now passing things on to Prof. Daniel Zeng, our new President for 2016-2017. I know that Daniel will work hard in his new position and that the ITS Society will continue to grow and prosper under his guidance.

Much success to you, Daniel, and to our Society for a bright future!

Sincerely,

Matt Barth
Past President, IEEE ITS Society
Let’s Build A Bright Future Together!
Daniel Zeng

Dear IEEE ITS Society members:

It is my great honor and privilege to serve as the IEEE ITS Society’s newest President.

In the past two years, the ITS Society, under Prof. Matt Barth’s leadership, has done brilliantly. All of our ITS Society colleagues are greatly appreciative of his exemplary leadership and contributions. To add my personal note, I am extremely grateful for all detailed, hands-on guidance and help from Matt concerning ITS Society matters in the past year, as I worked in the capacity of President Elect of our society. Although I have served on the Executive Committee of the ITS Society for more than 10 years and thought that I knew many aspects of ITS Society operations from my experience, still, I learned a huge deal from Matt and very much appreciate his dedication and the amount of work required of a President. Indeed, I stand in awe of the efforts from all the past leaders of the ITS Society in growing this young society into what it is today, and will do my best to continue the trend.

Now is an exciting time to be an ITS researcher or practitioner. Interest in ITS is at all-time high from research communities, established companies and start-ups, city planners, governments and regulatory agencies, students and future engineers, as well as the general public. The opportunities offered by building smart vehicles, smart roads, and smart transportation systems, are endless. It is also perfect timing to grow the IEEE ITS Society --- an all-inclusive international community, with high-quality high-impact ITS-related intellectual properties (including but not limited to premium publications in the field), vibrant collaboration platforms (including but not limited to key conferences in the field), and active networks of both established and starting ITS researchers and professionals. Our society has already been recognized as a very active, progressive, and forward-looking IEEE society, and I am certain that we will continue to flourish in the years to come.

Building on our past successes and ongoing momentum, I plan to work closely with the ITS Society Board of Governors and the Executive Committee, and of course, many of you, to accomplish several objectives. First, we will aggressively promote our newest publication, the IEEE Transactions on Intelligent Vehicles. The topics covered in this new title are critical to us and have already generated a lot of interests from a diverse set of IEEE communities. We will make sure that this title has a great kick-off year of 2016. Second, we will aim to establish and strengthen meaningful collaborations between the ITS Society and various IEEE cross-disciplinary efforts. For instance, several IEEE future direction initiatives (e.g., in areas such as Big Data, 5G, electrification, and security) have direct relevance to ITS. Plans are underway for the ITS Society to play a more prominent role in such efforts. In addition, we will closely collaborate with the IEEE Standards Association to make sure that our community is aware of the standards-related opportunities and resources within the IEEE. Standards are an additional form
of high-value intellectual property that our society can and should produce. Third, with the Vice President of Educational Activities position newly established, we are planning and implementing an array of education-oriented activities, ranging from creation of short online courses to development of pre-college educational plans following IEEE best practices. Fourth, we will be continuing the practice of encouraging formation of more chapters and student branch chapters in our society. In particular, we plan to strengthen the design and implementation of our Distinguished Lecturer program, realizing its potential as a valuable educational, membership, and chapter development mechanism.

I look forward to serving as your President in the next two years. Let’s continue to grow and make great and sustainable impact to the community. Let’s join hands together to build a bright future for the ITS Society!

Sincerely,

Daniel Zeng
President, IEEE ITS Society
Join the IEEE ITS Society

The IEEE Intelligent Transportation Systems Society (ITSS) is waiting for you.

[Image]

Join Now

Explore theoretical, experimental, and operational aspects of Electrical Engineering and Information Technologies as applied to ITS, Intelligent Vehicles, and Vehicle-Infrastructure Cooperation. Access the IEEE Transactions on ITS, the leading publication in intelligent transportation, and the up-and-coming ITS Magazine. Follow the latest trends in autonomous and cooperative driving, driving assistance systems, transportation communications, and advanced transportation sensing and analysis.

http://its.ieee.org/

Comprised of professionals who share your technical interests, joining (ITSS) allows you to deepen ties to your technical community and take advantage of specialized opportunities. Join today and:

- Stay current with developments in your field;
- Connect with leading experts and colleagues;
- Attend specialized conferences, share knowledge and network with your peers
- Receive discounts on exclusive publications; and most importantly
- Grow your career

Join NOW for just US$35.00 (US$18.00 for students)

The ITS Society is one of youngest, but a rapidly growing, IEEE society. Members of ITSS receive the Society's IEEE Intelligent Transportation System Magazine quarterly in print and through IEEE Xplore.
Join the IEEE ITS Society

Other Society benefits include:

- FREE electronic access, through IEEE Xplore, to the IEEE Transactions on Intelligent Transportation Systems;
- Networking opportunities with technical experts around the world:
  - ITSS sponsors over 10 Conferences, including the premier flagship conferences: the Intelligent Transportation System Conference (ITSC) and the Intelligent Vehicles Symposium (IV);
  - ITSS has 15 Technical Committees, where you can participate together with technical experts;
  - ITSS has new chapters forming around the world, where you can participate in local activities;
- Professional Recognition through prestigious ITSS Awards:
  - IEEE ITS Outstanding Research Award;
  - IEEE ITS Outstanding Application Award;
  - IEEE ITS Institutional Lead Award;
  - IEEE ITSS Best Ph.D. Dissertation Award;
- Discounts on print subscriptions, co-sponsored journals and Society conferences and workshops.

Regards,

Brendan Morris
Vice-President
IEEE ITSS Member Activities
IEEE ITS Outstanding Research Award
IEEE ITS Outstanding Application Award
IEEE ITS Institutional Lead Award

Call for Nominations

The prestigious

- IEEE ITS Outstanding Research Award,
- IEEE ITS Outstanding Application Award, and
- IEEE ITS Institutional Lead Award

are conferred annually to honor ITS researchers, practitioners, and research/development teams who have made significant contributions to research in ITS related fields (for ITS Research Award), developed and deployed successful ITS systems or implementations (for ITS Application Award), and demonstrated leadership in promoting ITS technologies (for ITS Institutional Lead Award). These awards have been established to recognize, promote, and publicize major research contributions, application innovations with real-world impact, and ITS institutional leadership.

Nomination Materials

Each nomination must consist of the following materials:

1. A 5-page summary statement providing sufficient detail for evaluation of the innovations and impact of the work.
2. At least 3 letters of recommendation from the recognized peer researchers, customers or users of the developed application, and organizations attesting to the work’s significance and impact.

Evaluation

A dedicated selection committee will evaluate all qualified nominations for these IEEE ITS Awards. Awards will be announced in November 2016 at the ITSC 2016 conference in Rio de Janeiro, Brazil, where the recipients will give featured presentations of their work.

Submission Deadline

Please email nominations before July 18, 2016 to ITSS Vice President for Membership at brendan.morris@unlv.edu.

Brendan Morris
VP for Membership
IEEE ITSS Best Ph.D. Dissertation Award

Call for Applications

IEEE ITSS Best Dissertation Award is given annually for the best dissertation in any ITS area that is innovative and relevant to practice. This award is established to encourage doctoral research that combines theory and practice, makes in-depth technical contributions, or is interdisciplinary in nature, having the potential to contribute to the ITSS and broaden the ITS topic areas from either the methodological or application perspectives.

Application Materials

Each application must consist of the following materials:
1. A doctoral dissertation written by the applicant in any language, no more than 18 months prior to the submission deadline.
2. A summary of the dissertation in English of up to 3 pages in length written by the Ph.D. candidate, highlighting the significance of the problem, the technical approach taken, application context and potential, and the scope of the dissertation.
3. Sample published paper(s) in English based on the dissertation written primarily by the Ph.D. candidate in scientific journals such as the IEEE Transactions on ITS or the IEEE ITS Magazine.
4. Listing of all publications by the applicant in the related field(s).
5. A letter of recommendation from the applicant’s dissertation advisor that assesses the significance of the research, attests to the originality of the work, and comments on the engagement of the applicant in the ITS field and the IEEE ITS Society.

Prize and Presentation

The winners will receive a cash prize and invitation to be recognized and present their work in November 2016 at the ITSC 2016 conference in Rio de Janeiro, Brazil. Awardees’ work will be featured in ITSS Transactions, ITS Magazine, and ITS Newsletter, when appropriate.

Evaluation

A dedicated selection committee will evaluate all qualified applications for the IEEE ITS Best Ph.D. Dissertation Awards and make selections.

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<tr>
<th>Place</th>
<th>Prize Amount (USD)</th>
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<td>1st</td>
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<td>2nd</td>
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<td>$500</td>
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Submission Deadline

Please submit the application materials by email before July 18, 2016 to ITSS Vice President for Membership at brendan.morris@unlv.edu.

Brendan Morris
VP for Membership
New Website for the IEEE ITS Magazine Submissions

We have recently completed our transition towards a new, independent site for the ITS Magazine, separate from the T-ITS site that the ITSS community has been using so far. The new ITS Mag site is live from December 15, 2015. It can be accessed at the following address:

mc.manuscriptcentral.com/itsm

The site has been created as a replica of the T-ITS site, including all its users and parameters. Accordingly, all users can access the new site using the same user name that you have been using in the T-ITS site. Let me explain how things will work from now on:

- All legacy ITS Mag’s manuscripts (already under review) will continue to be managed via the former site (mc.manuscriptcentral.com/t-its), while new submissions from December 15 onward will have to be managed using the new site (mc.manuscriptcentral.com/itsm). It means that during the transition period we will use both sites.
- The first time you enter the new site as user, you will have to provide your keywords (keywords have not been imported from the former site) and reset your password.

Simona Bertè, who has been Editorial Assistant to both the Transactions on ITS and the ITS Magazine for so many years, has finished her service on December 2015. As Editor-in-Chief of the ITS Magazine and as a member of the ITSS, I would like to express my utmost gratitude to Simona for her efficient and dedicated work to our society during all these years. Simona, thanks for everything you have done for us and for your great contribution to the ITSS.

Likewise, I would like to thank all of you once more for your continuous support to the ITS Magazine.

Miguel Ángel Sotelo.
Editor-in-Chief. IEEE Intelligent Transportation Systems Magazine
ITS Podcast New Episodes and Information

Please, circulate this!

**ITS Podcast Episode 32:** STIRPE. Autonomous Driving in Unstructured Environments, with Leopoldo Acosta

For this episode we have interviewed professor Leopoldo Acosta, from the University of La Laguna in Spain, about their intelligent vehicle, VERDINO (national research project STIRPE, DPI2013-46897-C2-1-R). That is not the usual intelligent vehicle for roads. Instead, it is a platform developed to operate in unstructured zones, like pedestrian zones. So it has to deal with humans in a closer than usual way for intelligent vehicles.

**ITS Podcast Episode 33:** Adaptive cruise-control a lot more, with Petros Ioannou

In this episode we have Prof. Jeffrey Miller interviewing Professor Petros Ioannou, both based at the University of Southern California. Petros Ioannou is such a reputed colleague in the field, for example for his contributions to adaptive cruise-control systems. He has been recently appointed as EiC of the IEEE Transactions on ITS. Our partner, Professor Miller did conduct a marvelous interview at Professor Ioannou’s office, so we have this amazing piece of information right from the front.

Volunteer Recruiting Campaign:

We are recruiting volunteers for the ITS Podcast. If you like our show and you think you can share some of your time with us, please let us know! Send us an email to itsspodcast@gmail.com.

Subscribe to the [Youtube Channel of the IEEE ITS Podcast](#):

We are launching our new YouTube Channel [here](#). We want you as our subscriber!

Please, check it out and feedback the show with your comments at the podcast website or at our social networking accounts: LinkedIn, Twitter [@ITSPodcast], Facebook, Google+, Youtube

Prof. Javier J. Sanchez-Medina  
EiC IEEE ITS Podcast
Summer School on Smart Mobility
Call for Participation

Technically Sponsored by the Spanish Chapter of the IEEE Intelligent Transportation Systems Society (ITSS), and the IEEE ITSS education program, we are organizing the first Summer School on Smart Mobility in Gran Canaria, in the Canary Islands Spain.

Venue: TBD, Gran Canaria, Canary Islands, Spain.

Co-Chairs: Leopoldo Acosta Sánchez (ULL), Javier J. Sánchez Medina (ULPGC)

The program is still tentative, but check out this website and our twitter account (@SmartMobilitySS) for getting all the updates.

The main purpose of the present summer course is to give students a wide panoramic of the current State of the Art in Smart Mobility. For that reason we are inviting top engineers and scientist coming from all Europe, also reputed as great communicators and teachers. They will provide the audience in an attractive and understandable way their vision. Their speeches will also be highly instructive and illustrative, since they will talk about their current research developments.

A potential student of this course does not need any previous education but the passion for learning, since every lecture will start right from the beginning. However, people already educated on engineering and science will also enjoy and extend their knowledge, since these group of professors are sharing their latest results and conclusions, some of them unpublished.

Tentative Program

| July, 14, 2016 | 9:00-10:00 | Summer School Introduction (Leopoldo Acosta Sánchez, Javier Sánchez Medina) |
| 9:10-10:00 | 10:00-11:15 | Rosaldo Rossetti. Smart Cities. |
| 11:15-11:45 | 11:45-13:00 | Coffee Break |
| 13:00-14:00 | 14:00-15:15 | Lunch (Not included, we will provide unexpensive options near the Venue) |
| 14:00-15:15 | 15:15-15:45 | “Safe Roads for All Road Users” by Haneen Farah |
| 15:45-17:00 | 15:45-17:00 | Coffee Break |
| 15:45-17:00 | 15:45-17:00 | “Traffic Simulation with SUMO. Threats and Opportunities of a new urban mobility simulation open paradigm” by Javier Sánchez Medina. |

| July, 15, 2016 | 9:00-10:00 | “Perenquén”: Automated Wheelchair Demo by GRULL |
| 10:00-11:15 | 11:15-11:45 | Leopoldo Acosta. “Perenquén”, Intelligent Assistive Mobility |
| 11:45-13:00 | 13:00-14:00 | Coffee Break |
| 13:45-14:00 | 14:00-15:15 | Cristina Olaverri Monreal. Human Factors and Smart Mobility |
| 14:00-15:15 | 15:15-15:45 | Lunch (Not included, we will provide unexpensive options near the Venue) |
| 15:15-15:45 | 15:45-17:00 | Coffee Break |
| 15:45-17:00 | 15:45-17:00 | Achille Fonzone. Title Pending |

Further Info and Requests:
https://sites.google.com/site/SmartMobilitySummerschool2016/
https://twitter.com/SmartMobilitySS
mailto:SmartMobility.SummerSchool@gmail.com
CALL FOR PAPERS

The IEEE Intelligent Transportation Systems Conference is the annual flagship conference of the IEEE Intelligent Transportation Systems Society. IEEE ITSC 2016 welcomes articles in the field of Intelligent Transportation Systems, dealing with new developments in theory, analytical and numerical simulation and modeling, experimentation, demonstration, advanced deployment and case studies, results of laboratory or field operational tests, under the general theme of Intelligent Transportation for Smarter Societies. IEEE ITSC 2016 is organized by Faculdade de Engenharia, Universidade do Porto (FEUP), Portugal, and Instituto de Ciências Matemáticas e de Computação, Universidade de São Paulo (ICMC/USP), Brazil.

Brought for the first time to South America, IEEE ITSC 2016 will be held in Rio de Janeiro, one of the major economic and cultural hubs in the continent. A cosmopolitan metropolis, known worldwide for its scenic beauty and its natural resources, the city provides a harmonious and agreeable environment for its residents and visitors, both for leisure and work. The Technical Program of IEEE ITSC 2016 will take place at the Convention Center of Windsor Oceanico Hotel, located in the sophisticated Barra da Tijuca, a short walk from the beach.

Program Topics

The technical areas of IEEE ITSC include, but are not limited to, the following topics:

- Transportation Networks
- Advanced Public Transportation Management
- Ports, Waterways, Inland Navigation, and Vessel Traffic Management
- Modeling, Simulation, and Detection of Vulnerable Road Users and Animals
- Air, Road, and Rail Traffic Management
- ITS User Services
- Emergency Management
- Artificial Transportation Systems
- Transportation Electrification
- Emissions, Noise, Environment
- Management of Exceptional Events: Incidents and Evacuation
- Security, Privacy and Safety Systems
- Transportation Smartification
- Commercial Vehicle Operations
- Intelligent Logistics
- Sensing, Detectors and Actuators
- Connected and Probe Vehicles
- Big Data and Naturalistic Datasets
- Communication in ITS
- Cooperative Techniques and Systems
- Electronic Payment Systems
- Smart Mobility
- Traffic Theory for ITS
- Modeling, Control and Simulation
- HMI and Human-machine interaction
- Advanced vehicle safety systems
- Human Factors, Travel Behavior
- Behavioral modeling in ITS
- ITS Field Tests and Implementation
- Driver and Traveler Support Systems
- Intelligent Vehicles
- Vision, and Environment Perception
- Vehicle localization and autonomous navigation
- Crowdsourcing and Social Transportation
- Societal issues in ITS
- Education in ITS
- New trends and utopias in ITS

Paper Submission & Publication

Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard format. Detailed submission instructions can be found on the conference website at: http://www.ieee-itsc2016.org

Papers accepted for the technical program of the conference will be included in the conference proceedings to be published and indexed by IEEE in its IEEE Xplore Digital Library.

Selected papers of exceptional quality will be invited for submission to special issues of the IEEE Transactions on ITS and the IEEE ITS Magazine. Authors will be asked to revise their manuscripts according to the standards of the Transactions and the Magazine.
Call for Papers

2016 IEEE Forum on Integrated and Sustainable Transportation Systems
Sponsored by the IEEE Intelligent Transportation Systems Society
July 10-12, 2016, Beijing, China
[http://www.ieeefists.org](http://www.ieeefists.org)

FISTS’16 will be held together along with 2016 IEEE International Conference on Service Operations and Logistics, and Informatics and 2016 IEEE International Conference on Vehicular Electronics and Safety.

Transportation of goods and people plays a vital role in the lives of everyone and in virtually all businesses on earth. The cost of transportation, both personal and freight, accounts for a significant share in the global economy. Traditionally, transportation has been divided into three categories: land (automobiles, trucks, and rail), air and water. There are many issues affecting all of these modes of transportation in the face of increasing demands. New technologies are required to solve these issues. The purpose of FISTS is to bring together world leaders in technology, implementation, and policy management to share information on issues involving land, air, and sea systems.

**General Co-Chairs**
Nanning Zheng
X‘ian Jiaotong University

Xiaoming Liu
Ministry of Transport of the PRC, China

Fei-Yue Wang
Chinese Academy of Sciences, China

**Program Co-Chairs**
Lueling Yang
Colorado State University, USA

Zhiming Ding
Beijing University of Technology, China

Li Li
Tsinghua University, China

**Finance Chair**
Nan Zhang
Chinese Association of Automation, China

**Publication Chair**
Lingxi Li
Indiana University-Purdue University Indianapolis, USA

**Exhibition Chair**
Chunzhao Guo
Toyota Central R&D Labs., Inc., Japan

**Local Arrangements Chairs**
Hongxia Zhao
Wuling Huang
Chinese Academy of Sciences, China

**Topics**
The technical areas include but are not limited to the following:

**Sustainable Land Transportation**
- Traffic Management
- Traveler Information Services
- Traffic Data Collection and Analysis
- Traffic Estimation/Prediction
- ECO-Friendly ITS applications
- Innovative Transit Systems
- Innovative Goods Movement Systems
- Transportation Solutions for Urban Areas

**Sustainable Water Transportation**
- Linking Waterways with Road and Rail
- Advanced Propulsion Systems
- Traffic Management/Information Services

**Sustainable Air Transportation**
- Air Traffic Management Systems
- Aircraft Operations and Fuels

**Communication Efficiency**
- Green Radio
- Communication Power Systems
- Sustainable Wireless Networks

**Integrated Systems**
- Co-operative Systems
- Innovative Multi-Modal Travel Solutions
- Transportation Infrastructure
- Intelligent Vehicles/Infrastructure
- Crossborder Multimodal Integration

**Energy**
- Alternative Energy and Fuels
- Innovative Energy Management
- Future Energy Sources

**Environmental Issues**
- Transport Greenhouse Gas Emissions
- Transport Air Pollutant Emissions
- Transport-related Water Quality Issues

**Efficiency Issues**
- Capacity Management of Roads
- Capacity Management of Rail
- Throughput Maximization
- Systems Operation Efficiency
- Regulative and Legal Issues

**Paper Submission**
Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard format. Detailed submission instructions can be found through conference website.

**Important Dates**
Please visit the conference website at [http://www.ieeefists.org](http://www.ieeefists.org) for the deadlines.
Call for Papers

2016 IEEE International Conference on Vehicular Electronics and Safety

Sponsored by the IEEE Intelligent Transportation Systems Society
July 10-12, 2016, Beijing, China

http://www.ieeeves.org

ICVES’16 will be held together along with 2016 IEEE International Conference on Service Operations and Logistics, and Informatics and 2016 IEEE Forum on Integrated and Sustainable Transportation Systems.

The 2016 IEEE International Conference on Vehicular Electronics and Safety (ICVES’16) is an annual forum sponsored by the IEEE Intelligent Transport Systems (ITS) Society. It brings together researchers and practitioners to discuss research and applications. ICVES’16 solicits papers dealing with any aspects of vehicle electronics and vehicle safety.

General Co-Chairs
Nanning Zheng
Xi’an Jiaotong University
Xiaoming Liu
Ministry of Transport of the PRC, China
Fei-Yue Wang
Chinese Academy of Sciences, China

Program Co-Chairs
Liuqing Yang
Colorado State University, USA
Zhiming Ding
Beijing University of Technology, China
Li Li
Tsinghua University, China

Finance Chair
Nan Zhang
Chinese Association of Automation, China

Publication Chair
Lingxi Li,
Indiana University-Purdue University Indianapolis, USA

Exhibition Chair
Chunzhao Guo
Toyota Central R&D Labs., Inc., Japan

Local Arrangements Chairs
Hongxia Zhao
Wuling Huang
Chinese Academy of Sciences, China

Topics
The technical areas include but are not limited to the following:

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

Paper Submission
Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard format. Detailed submission instructions can be found through conference website.

Important Dates
Please visit the conference website at http://www.ieeeves.org for the deadlines.
CALL FOR PAPERS

2016 IEEE International Conference on Service Operations and Logistics, and Informatics

July 10-12, 2016, Beijing, China

http://www.ieeesoli.org

Sponsored by IEEE/ITSS, Technical-sponsored by INFORMS

SOL’16 will be held together along with 2016 IEEE International Conference on Vehicular Electronics and Safety and 2016 IEEE Forum on Integrated and Sustainable Transportation Systems.

Service science, service operations, logistics, and informatics are becoming ever more complex and interdependent. They are playing an increasingly important role in today’s world economy. Information and communications technology provides cyber-infrastructure and platforms to achieve more efficient and productive services operations. New types of service offerings are also emerging to meet the needs of customers and consumers.

Areas of Interest
Topics include but are not limited to the following:

- Service Design, Engineering, Operations, and Innovations
- Logistics & Supply Chain Management
- Material Flow (MF) Science and Technology
- Service/Event Management & Manufacturing
- Information & Communications Technology and Systems
- Electronic Commerce & Knowledge Management
- Business Modeling, Monitoring & Management
- Service Delivery and Operations
- People in Services
- Cloud Computing and the Internet of Things
- Mobile Internet, Cyber-Physical-Social Systems
- Intelligent Transportation Systems (ITS)
- Big Data & Smart City

Paper Submission
Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard format. Detailed submission instructions can be found through conference website.

Important Dates
Please visit the conference website at http://www.ieeesoli.org for the deadlines.
Objectives
Mechanical and electrical systems show an increasing integration of mechanics with electronics and information processing. This integration is between the components (hardware) and the information-driven functions (software), resulting in integrated systems called mechatronic systems. The development of mechatronic systems involves finding an optimal balance between the basic mechanical structure, sensor and actuators, automatic digital information processing and control in which embedded systems play a key role. The goal of the 12th IEEE/ASME MESA16, is to bring together experts from the fields of mechatronic and embedded systems, disseminate the recent advances, discuss future research directions, and exchange application experience.

Symposia
- Autonomous Systems and Ambient Intelligence
- Bio-Mechatronics - Medical Devices & Technologies
- Cloud Computing and Emerging Technologies for Mechatronic and Embedded Systems
- Cyber-Physical Systems and Hybrid Systems
- Design and Verification Methodologies for Mechatronic and Embedded Systems
- Diagnosis and Monitoring in Mechatronic Systems
- Embedded Systems Infrastructure and Theory
- Fractional Derivatives and Their Applications
- Mechatronics for Advanced Manufacturing
- Mechatronic Control and Electrical Vehicular Systems
- Mechatronics and Embedded Systems Applications
- Mechatronics and Embedded Systems Education
- Mechatronic and Embedded Systems for Renewable Energy Systems
- Mechatronic and Embedded Technologies in Intelligent Transportation Systems
- Mechatronics for Hazardous Environments
- Robotics and Mobile Machines
- Sensors and Actuators
- Small Unmanned Aerial Vehicle Technologies and Applications
- Virtual Prototyping in Mechatronics

Paper Submission
Manuscripts should be at most six (6) pages in IEEE two-column format and must be submitted in PDF format via the conference web-site. Please use the LATEX style file or Microsoft Word template to prepare your manuscript. Accepted, peer-reviewed papers will be published in the conference proceedings, EI indexed, and submitted to IEEE Xplore. Extended versions of selected papers will be recommended and further published in the special issues of well-known SCI journals such as IEEE Transaction on Intelligent Transportation Systems, Microsystem Technologies, and Journal of Intelligent and Robotic Systems.

Important Dates
- March 31, 2016: Full Paper Submission
- May 20, 2016: Notification of Acceptance
- June 30, 2016: Final Papers Submission
- June 30, 2016: Authors Registrations
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 2016, 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](http://mc.manuscriptcentral.com/t-iv)


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](mailto:ozguner.1@osu.edu))
Proposal for IEEE ITS Magazine

Special Issue on “Autonomous Cooperative Driving”

Guest Editors:
Dr. Martin Lauer, Karlsruher Institut für Technologie, Germany, martin.lauer@kit.edu
Dr. Chunzhao Guo, Toyota Central R&D Labs., Inc., Japan, czguo@mosk.tytlabs.co.jp
Dr. Javier Alonso, University of Alcalá, Spain, javier.alonsoruez@uah.es

Aim and Scope
Cooperation among autonomous vehicles is essential to achieve the true potential of self-driving cars for improving traffic flow, reducing the environmental impact of traffic, increasing the road safety, and, at the end, accomplishing the ultimate goal of zero traffic accidents. The commonly agreed advantages of autonomous vehicles (fewer vehicle crashes due to drivers’ errors, increased mobility of the young, the elderly, and the disabled people, more efficient traffic flow and decreased congestion, increased fuel efficiency, and the increase of public space as the vehicles won't need proximate urban parking) could all be better accomplished with cooperation between autonomous vehicles, road infrastructures and other road users.

The special issue on "Autonomous Cooperative Driving" of the IEEE Intelligent Transportation Systems Magazine jointly organized with the IEEE Intelligent Systems Magazine, aims to present new approaches on intelligent transportation systems technologies. It is focused on autonomous and connected vehicles, specifically, the ones related to the cooperation among self-driving vehicles. We expect articles describing novel approaches in the context of vehicle cooperation, such as intersection solving, platooning maneuvers, cooperative or shared perception, V2X communications, collaborative decision making, etc.

We are pleased to welcome and to encourage prospective authors to contribute with manuscripts reporting on original research in the different fields concerning autonomous cooperative driving.

Topics of interest include, but are not limited to:

- Cooperative maneuvers (platooning, overtaking, intersection solving, etc.).
- Novel techniques of traffic management based on cooperative vehicles
- Cooperative perception of the environment.
- V2V, V2I communications.
- Collaborative planning and decision making in autonomous vehicles.

Important Dates (Tentative):

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Paper submission deadline</td>
<td>June 30, 2016</td>
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<td>Author notification</td>
<td>September 30, 2016</td>
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<td>Revised manuscript submission deadline</td>
<td>October 31, 2016</td>
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<tr>
<td>Final decision notification</td>
<td>January 31, 2017</td>
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<tr>
<td>Final paper submission deadline</td>
<td>February 15, 2017</td>
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</table>
**IEEE Intelligent Transportation Systems Magazine Special Issue on**

'High Performance Computing in Simulation and Optimization of Dynamic Transportation Networks'

**Description:** When it comes down to Real Time traffic management, we need accurate simulations that can give us a sharp image of what is going on in the streets and what is going to be in future. However, accuracy brings along heavier algorithms, a higher performance demand from the hardware to be used. Luckily, the current technological progressions on electronics and computer science possess a great potential to extend the application of computing methodologies in research and industry. Building a powerful parallel computer is not an expensive or extremely complex goal anymore. The increasing power of computers has advanced the modeling, simulation, and optimization of complex systems such as dynamic transportation networks. This gave rise not only to the incorporation of various existing theories and methods to network problems, but also to the robust simulation of interactive user-network behavior for real time solutions. Considering the need for the efficient modeling and simulation of vehicular network traffic within temporal domain with reasonable computation load, this special issue solicits novel contributions and breaking results on all aspects of high performance computing applications in network traffic simulation.

In connection with the activities of the 19th EURO Working Group on Transportation Meeting (EWGT2016), we seek submissions from participants to the special session on 'High Performance Computing in Simulation and Optimization of Dynamic Transportation Networks' at EWGT2016. Since we aim to provide a collage of high-quality papers presenting crucial aspects of dynamic network simulation and optimization including both established and state-of-the-art solutions in this field and also showcase emerging innovative ideas and technologies this special issue is open to the entire international research community in interest. Papers suitable for this issue should focus on topics including (but not limited to):
- High performance computing in modeling and optimization of dynamic network traffic;
- Network traffic state estimation and prediction;
- Emerging data technologies to support dynamic network management applications;
- Large-scale urban traffic control;
- Combined network traffic control and dynamic network management; and
- Relevant case studies and applications.

**Guest Editors:**

Hilmi Berk Celikoglu  
Technische Universität von Istanbul, Turkey  
celikoglu@itu.edu.tr

Javier J. Sánchez-Medina  
Universidad de Las Palmas de Gran Canaria, Spain  
javier.sanchez.medina@ieee.org

**The intended timeline for the overall publication process of the special issue is:**

Submission deadline of full papers: November 15, 2016  
Feedback from first-round reviews: February 15, 2017  
Revised manuscripts due: April 01, 2017  
Final manuscripts due: May 15, 2017  
Publication: Fall 2017

**Submission via Manuscriptcentral**

All papers should be submitted at [IEEE Transactions on Intelligent Transportation Systems and Intelligent Transportation Systems Magazine](https://mc.manuscriptcentral.com/itsm). While submitting a paper to the special issue, please choose the article type 'Magazine Special Issue - EWGT2016: Simulation and Optimization of Dynamic Network Traffic' otherwise your submission will be handled as a regular manuscript. All submissions will go through the journal’s standard peer review process. Criteria for acceptance include originality, contribution, and scientific merit. For author guidelines, please see the IEEE Tools for Authors at [http://www.ieee.org/publications_standards/publications/authors/authors_journals.html](http://www.ieee.org/publications_standards/publications/authors/authors_journals.html).

All inquiries regarding this call for papers should be directed to Guest Editors listed above or to the Editor-in-Chief, Dr. Miguel Ángel Sotelo at 'miguel.sotelo@uah.es'.
Call for Papers

*IEEE Transactions on Human–Machine Systems*

Special Issue on:

“Holistic approaches for Human-Vehicle Systems: combining models, interactions and control”

Ground vehicles operate in a complex human–vehicle–road environment involving numerous levels of interaction among drivers, vehicles, and the ambient within which they travel. Human drivers may be “intelligent controllers” that define the intended driving direction and/or operate (totally or partially) autonomous vehicles. To support the development of safe driver-vehicle interactions in an era of increasing automation, methods for modeling and analyzing the contribution of driver performance are critical and essential. This raises interesting challenges associated with the characterization and modeling of human behaviors, particularly with respect to cognition and neuromuscular dynamics, their implication in closed-loop driver–vehicle performance, and their induced modifications brought about by interaction with the surrounding environment. Specifically, holistic approaches are of interest, which aim at efficiently and quantitatively combine different aspects of the human-vehicle interaction in specific application domains.

This special issue focuses on these relevant driver-vehicle interaction topics, with attention paid to the range of vehicles and associated technology currently on the market and emerging in the era of increased automation.

The topics of interest include but are not limited to:

- Modeling and characterization of driver–vehicle interactions
- Human driver modeling: neuromuscular dynamics, skills and learning
- Advanced vehicle control systems with driver-in-the-loop
- Intelligent and cognitive vehicles
- Advanced driver assistance systems (ADAS)
- Modeling and characterization of human drivers’ errors
- Characterization and quantification of driver's capabilities

**Important Dates:**

- Manuscript submission: April 15, 2016
- Completion of first round of reviews: July 31, 2016
- Revised manuscript submission: September 31, 2016
- Notification of final decision: December 15, 2016
- Final manuscript submission: January 31, 2017

Paper should be submitted through [http://mc.manuscriptcentral.com/thms](http://mc.manuscriptcentral.com/thms), with a cover letter that contains the statement: “This manuscript is being submitted to the Special Issue: Modeling, Dynamics, Perception and Control of Human–Vehicle Systems”. For detailed submission information, please refer to “Information for Authors.”

**Guest Editors:**

Mara Tanelli, Politecnico di Milano, Italy mara.tanelli@polimi.it
Dongpu Cao, Cranfield University, United Kingdom d.cao@cranfield.ac.uk
Rafael Toledo, Universidad Politécnica de Cartagena, Spain rafael.toledo@upct.es
Laura Stanley, Montana State University–Bozeman, United States laura.stanley@ie.montana.edu

All enquiries about the special issue should be sent to mara.tanelli@polimi.it.
The IEEE International Workshop on Urban Mobility & Intelligent Transportation Systems (UMITS ITALY 2016) will be held in conjunction with the IEEE International Symposium on Computers and Communications (ISCC 2016) in Messina, Italy, Jun 27, 2016. UIMITS provides a venue for discussing the latest scientific results and practical case studies on Intelligent Transportation Systems (ITS). The workshop is directed at both academic researchers and practicing engineers. In this edition we focus on Communication in ITS, and how to move the technology from the laboratories to the cities. The topics of interest have been carefully selected to provide a comprehensive overview of the most significant issues related to Planning & Managing the communication in ITS. Thorough comprehension of urban mobility enables the development of more realistic and sophisticated models for ITS. More sophisticated ITS models enable the development of better strategies for Planning & Managing the communication in ITS, which may allow new insights into the application of novel technologies such as Internet of Things, Clouds, Software Defined Networks, Big Data, and Social Networking.

TOPICS OF INTEREST

Authors are invited to submit papers that fall into or are related to one of the areas listed below:

**PLANNING COMMUNICATION**
- Network Management
- Deployment of Networks
- Vehicular Networks
- Experience Reports
- Experimental Testbeds
- Privacy, Authentication, Reputation for ITS

**NOVEL TECHNOLOGIES**
- Clouds, SDN, Social Networks for ITS

**MODELS for ITS**
- Algorithms for ITS
- Analytic Formulations
- Optimization Models
- Probabilistic Approaches

**URBAN MOBILITY**
- Traffic Prediction
- Mobility Models

**INTERDISCIPLINARY**
- Green ITS, Economic, Legal and Regulative Issues

**PAPER SUBMISSION**

All submissions must present original, unpublished research or experiences. Only original papers that have not been published elsewhere can be submitted. Each regular paper must be accompanied by a 75- to 200-word abstract outlining scope and contributions. Papers are limited to 6 pages (including references).

On the other hand, a short paper (last abstract) is 3 pages long accompanied by a 50- to 75-word abstract stating new or controversial ideas or presenting work in progress. All submissions must be written in English in IEEE 2-column style. Authors should submit their papers via JEMS: https://jems.sbc.org.br/umits2016

**AWARD**

will be presented to the best UIMITS ITALY 2016 paper.

**PROCEEDINGS**

Accepted papers at UIMITS’16 will be included in IEEE ISCC proceedings and IEEEExplore.

**TECHNICAL PROGRAM COMMITTEE**

Ahmet Sekeroglu (Université de Technologie de Compagne, France)
Albert Levi (Sabanci Universitesi, Turkey)
Axel Veinot (Tampere University of Technology, Finland)
Alejandro Viera (IMBA, France)
Ali-Salih Khan Pathan (IUP and SEU, Bangladesh/Islamic University in Madinah, KSA)
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Jose I. C. S. Lima (Institut National de Recherche en Informatique et en Automatique-CNRS, France)
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Ozan Tonguz (Carnegie Mellon University, USA)
Ozgur Oktasap (Koc Universities, Turkey)
Qurban Ali Memon (United Arab Emirates University, UAE)
Peter Steenkiste (Carnegie Mellon University, USA)
Renato Assunção (Universidade Federal de Minas Gerais, Brazil)
Ronie Ilidio da Silva (Universidade Federal de São João Del-Rei, Brazil)
Susana Sargento (Universidade de Aveiro, Portugal)
Tuan Ahmed (Aalborg University, Denmark)
Vasco Vassiliev (University of Cyprus, Cyprus)
Wagner Meira Jr (Universidade Federal de Minas Gerais, Brazil)
Yacine Ghamri-Doudane (University of La Rochelle, France)
Xiquan Chen (Zhengjiao University, China)
Yin Pei (Tsinghua University, China)

**ORGANIZING COMMITTEE**

Cristiano M. Silva (DTECH/USFJ, cristiano@usfj.edu.br)
José Marcos S. Nogueira (DCCE/UFMG, jmrcos@dcc.ufmg.br)

**IMPORTANT DATES**

- Paper submission: Apr 1, 2016
- Notification of acceptance: May 7, 2016
- Workshop date: June 27-30, 2016

For more information: http://umits-iscc2016.dcc.ufmg.br
CALL FOR PAPERS

Universal Village exemplifies a desired future society that pursues human-nature harmony through the wise use of technologies. The concept is an expanded & advanced version of Smart Cities, and signifies that we should follow the law of universe, protect environment/eco-system, understand humans’ need in depth, and innovate new lifestyles, thus providing sustainable happiness for humanity’s future. What makes the International Conference on Universal Village unique is that it expected to call for collective effort across multi-disciplinary fields in order to develop a platform where researchers with different background would collaborate beyond the traditional boundaries of their research fields, and to find a systematic, coordinated, long-term solution for the future of human and mother-nature. The theme for UV2016 is “Expand our horizon: UV for regions at different developing phases, and for people at different ages, with various technology & culture backgrounds.”

Subjects for UV2016 include but are not limited to the following topics:

• Develop systematic methodologies to advance UV technologies and to develop UV systems, including, intelligent transportation, intelligent environment & communities, intelligent healthcare, intelligent food systems, etc.
• New life styles enabled by IT / New energy sources / New materials / Effective microorganism technology and environmental protection.
• Address suitable paths of design, development, implementation, engineering and integration appropriate for different regions.
• Explore how to benefit governments, companies, and universities on specific UV topics as well as practical UV solutions.

New Life Styles Enabled by IT
- Develop various IT systems to improve the quality of life and to improve sustainability.
- UV transportation, UV healthcare & nursing, UV environment & communities, UV energy management, UV education, etc.
- Security, safety, mobility, privacy protection in big data application, UV response systems for emergency and accidents
- New life styles to reduce waste & pollution

New Energy Sources
- Harmless to the ecology during each process including production, utilization, and disposal.

New Materials
- Harmless material to environment, resolving the problem of garbage disposal.

Effective Microorganism Technology & Environmental Protection
- Impact of EM on future life style
- Relevant technologies to monitor and to improve environment and to reduce pollution

System Integration & Implementation
- System designs. Interaction and Integration of Subsystems
  - Interaction & mutual impact between the whole system and its subsystems.
  - Dynamic impact of subsystem implementation and system integration.

Hierarchical Layers & Components
- Infrastructure Layer
  - Intelligent sensor & communication network
  - Cloud and mobile computing
  - Event-driven data compression & storage
- Informational Layer
  - Multi-platform information retrieval & visualization, data sharing & data integration, data fusion & data mining (across TV net, mobile net, Internet)

Human & Social Factors
- Social & Regional Factors. Future society.
  - Impact of regional, cultural, and political factors on the system design
  - Impact on life style, economics, ecology, and future society
  - Inter-entity & international collaboration, such as, diverse collaboration among companies, governments, and universities
  - Future work.

PAPER SUBMISSION:  UV2016.submit@universal-village.org
Authors can submit SHORT PAPERS (within 4 pages) or REGULAR PAPERS (5-6 pages) in IEEE format. Online paper submission is also available.

PAPER PUBLICATION
Papers that have been accepted and presented will be included into IEEE Conference Proceedings sponsored by the IEEE (pending). Authors of accepted papers (or at least one of the authors) are expected to register in full and present their work at UV2016.

PROPOSAL FOR SPECIAL SESSIONS & QUESTIONS:  UV2016.conf@universal-village.org

FOUNDING ORGANIZER:  MIT Universal Village Program

http:// universal-village.org /
October 6-7th, 2016
Nagoya, Japan

The 3rd International Conference on Universal Village (UV2016)

Humankind
In harmony with nature through
wise use of technology

CALL FOR PAPERS
Deadline for paper submission:
May. 30. 2016
Notification of paper acceptance:
June. 30. 2016

PAPER SUBMISSION:
UV2016.submit@universal-village.org

PROPOSAL FOR SPECIAL SESSIONS & QUESTIONS:
UV2016.conf@universal-village.org

http://universal-village.org /
CALL FOR PAPERS

1st EAI International Conference on Security and Privacy in Vehicular Networks

Supported by the Spanish Chapters of IEEE Intelligent Transportation Systems Society and IEEE Computer Society
17-18 November, 2016
Madrid, Spain

SCENARIO

Vehicular networks (or VANETs for short) are gaining attention among the research community. With the evolution of ICT technologies in this field, a huge amount of services may be devised. In fact, the term “smart cities” has been recently coined to refer to advanced applications that make public services to be “smarter”. Transportation management is one of these services.

Despite the expected benefits, security issues cannot be taken for granted. In particular, classical needs such as authentication, confidentiality, integrity, access control and non-repudiation have to be provided in this novel scenario. Data trust is also a relevant matter. According to the unique features of VANETs (e.g. high mobility of nodes, geographical dispersion, short-range communications), offering these services becomes a challenge.

Privacy is also of utmost relevance in VANETs. In a context in which malicious third parties may abuse Road-Side Units (RSUs) or compromise surrounding vehicles, it is essential to ensure that threats like tracking are not easily carried out. Privacy preservation is also required to prevent a “big brother” effect. However, this need has to be balanced with liability – misbehaving drivers and/or offenders must be properly authenticated to make them liable for their malicious actions.

The standardization community (e.g. IEEE, SAE, etc.) is also contributing to generalize the mechanisms to provide with security and privacy support for vehicular communications. However, there is still the need to propose novel approaches in this regard.

The goal of this conference is to address the foundations of security and privacy in the field which help to setting a ground base for further developments in VANETs. Expected contributions have to identify novel models, techniques, protocols, algorithms or architectures, etc. that provide with the said properties.

Scientists and practitioners all over the world are invited to take part in this conference. Novel proposals which include an experimental implementation and evaluation of the proposed approach would stand out over the rest.

About EAI - The European Alliance for Innovation is a dynamic eco-system for fostering ICT enabled innovation to improve European competitiveness and to benefit society. Find out more at http://www.eai.eu.
Potential topics of interest, which can be investigated from different perspectives (social, organizational, technological) include, but are not limited to, the following application domains:

- Privacy/Anonymity mechanisms in VANETs
- Security and privacy metrics
- Authentication and access control in VANETs
- User and Data trust issues in VANETs
- Formal security models for VANET protocols
- Novel cryptographic algorithms for VANETs
- Secure and privacy-preserving aggregation techniques for VANETs
- Formal verification techniques for VANET protocols
- Standardization aspects of VANET security and privacy
- Human-computer interaction issues related to security/privacy perception in VANETs
- Legal issues related to security and privacy aspects for VANETs
- Secure and private location-based services in VANETs

Highlights:
The event is endorsed by the European Alliance for Innovation, a leading community-based organization devoted to the advancement of innovation in the field of ICT. It is also technically sponsored by IEEE Intelligent Transportation System Society.

All accepted papers will be submitted for publication in Springer LNICST and made available through SpringerLink Digital Library. Proceedings are submitted for inclusion to the leading indexing services: Elsevier (EI), Thomson Scientific (ISI), Scopus, Crossref, Google Scholar, DBLP.

Selected (and presented) papers, after further extensions, will be published in the Special Issue of the SPVAN conference in the Mobile Networks and Applications Journal (included in Thomson Reuters’ ISI JCR ranking).

Furthermore, other outstanding papers will be considered for publication in the EAI Endorsed Transactions on Security and Safety.

Paper submission
Papers should be written in English and formatted using the Springer LNICST Authors' Kit (see Author’s kit section).

Papers should be submitted through EAI 'Confy' system at Confy.

Paper length: Regular papers up to 6 pages and Short papers up to 4 pages.

Publication Ethics and Malpractice statement
Previously published work may not be submitted, nor may the work be concurrently submitted to any other conference or journal. Such papers will be rejected without review. Read the Publication Ethics and Malpractice Statement.

EAI conferences are committed to upholding the highest standards of publication ethic and publication malpractices. All this Publication Ethics and Malpractice Statement is based, in large part, on the COPE (Committee on Publication Ethics).
## Important Dates

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<td><strong>Full Paper Submission Deadline</strong></td>
<td>24th June 2016</td>
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<td><strong>Notification Deadline</strong></td>
<td>29th July 2016</td>
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<td><strong>Camera-ready Deadline</strong></td>
<td>26th August 2016</td>
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<td><strong>Conference dates</strong></td>
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## ORGANIZING COMMITTEE

- **General Chairs**
  - José María de Fuentes, Computer Security Lab (COSEC), Carlos III University of Madrid, Spain

- **General Co-Chairs**
  - Lorena González-Manzano, Computer Security Lab (COSEC), Carlos III University of Madrid, Spain
  - Pedro Peris-López, Computer Security Lab (COSEC), Carlos III University of Madrid, Spain

- **Technical Program Committee Chairs**
  - Javier López, Computer Science Department, University of Malaga, Campus de Teatinos, Spain

- **Publicity and Social Media Chair**
  - Jetzabel Serna-Olvera, Chair of Mobile Business and Multilateral Security, Goethe Universität, Frankfurt, Germany

- **Sponsorship & Exhibits Chair**
  - Agustí Solanas, Head of the Smart Health Research Group Dept. Computer Engineering and Maths, Rovira I Virgili University Av. Paisos Catalans, Spain

- **Website Chair**
  - Ana I. González-Tablas, Computer Security Lab (COSEC), Carlos III University of Madrid, Spain

- **Publications Chair**
  - Javier J. Sánchez-Medina, Innovation Center for the Information Society (CICEI), University of Las Palmas de Gran Canaria, Spain
  - Miguel A. Sotelo, University of Alcalá de Henares, Spain

- **Local Chair**
  - Ana I. González-Tablas, Computer Security Lab (COSEC), Carlos III University of Madrid, Spain

- **Conference Manager**
  - Monika Majerníková, European Alliance for Innovation, Bratislava, Slovakia
We live in an era of major societal and technological changes. Recent demographic trends generate new challenges for cities making an efficient and sustainable management of services and resources more than ever necessary. Cities must transform and become “Smart Cities” to cope with these challenges. According to ([1]), a city may be called ‘smart’ when investments in human and social capital and traditional (transport) and modern (ICT) communication infrastructure fuel sustainable economic growth and a high quality of life, with a wise management of natural resources, through participatory government”. A Smart City is a city’s response to that challenges raised by technological evolution and namely ICT development and penetration. Scattered sensors and technological devices do not make a city smart - rather, it is the city’s structure, dynamics, and the implications of the technology on improvement in the wealth and quality of life of its citizens ([2]).

A central element that requires consideration is mobility. Many scientific and political fora have called for a brand new way of thinking about mobility, based on four important pillars: Safety, Environmental sustainability, Social equity and Economic sustainability are the driving forces of the change we will see for good in the next decades.

The concept of ‘Smart Mobility’ is an essential part of the ‘Smart City’ paradigm, that has so far been understood as a fusion of Information and Communication Technologies (ICT) with Transportation. However, this is only a simplistic notion of what ‘Smart Mobility’ really needs to be. In this workshop we will extend that vision and explore from traffic modelling and management to transportation electrification, human factors and autonomous driving, in a holistic and human centred approach. To do so we will work to have contributions from reputed scientists coming from all of the aspects of the proposed theme.

This Workshop was meant as a continuation and renewal of two past traditional EUROCAST Workshops, namely “Traffic Behaviour, Modelling and Optimization” and "Mobile and Autonomous Transportation Systems". Authors will be notified of acceptance by December 1, 2016. Accepted Extended Abstracts will be published in a pre-Conference volume with ISBN. It is anticipated that the final selected full papers will be published in line with prior Eurocast meetings (Springer Lecture Notes in Computer Sciences). Selected full final papers for publication will be required before April 30, 2017.

Further information can be requested here: javier.sanchez.medina@ieee.org

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IEEE Intelligent Transportation Systems Society’s Sponsored Conferences

IEEE Intelligent Vehicles Symposium (IV’16)
June 19-22, 2016
Gothenburg, Sweden
http://www.iv2016.org

August 29-31, 2016
Auckland, New Zealand
http://www.mesa2016.org

International IEEE Conference on Intelligent Transportation Systems (ITSC2016)
November 01-04, 2016
Rio de Janeiro, Brazil
https://web.fe.up.pt/~ieeeitsc2016/
Submission due by: May 22, 2016

International Conference on Vehicular Electronics and Safety (IEEE ICVES 2016)
July 10-12, 2016
Beijing, China
http://www.ieeeves.org
Submission due by: May 01, 2016

IEEE International Conference on Service Operations and Logistics, and Informatics (IEEE SOLI 2016)
July 10-12, 2016
Beijing, China
http://www.ieeesoli.org
Submission due by: May 01, 2016
July 10-12, 2016
Beijing, Chine
http://www.ieeeves.org/
Submission due by: May 01, 2016

July 10-12, 2016
Beijing, Chine
http://www.ieeefists.org
Submission due by: May 01, 2016

Other Conferences

2016 SAE Battelle CyberAuto Challenge
July 25-29, 2016
Warren, Michigan, USA
http://www.sae.org/events/cyberauto/

The 22nd International Symposium on Transportation and Traffic Theory (ISTTT22)
July 24-26, 2017
Northwestern University, Evanston, Illinois, USA
http://sites.northwestern.edu/isttt/

NRITS National Rural ITS Conference
October 02-05, 2016
Chattanooga, TN, USA
http://www.nationalruralitsconference.org/

IEEE 83rd Vehicular Technology Conference: VTC2016-Spring
May 15–18, 2016
Nanjing, China
http://www.ieeevtc.org/vtc2016spring/

IEEE Multi-Conference on Systems and Control (MSC 2016)
September 19-22, 2016
Buenos Aires, Argentina
http://www.msc2016.org/
Submission due by: April 15, 2016

October 9-14, 2016
Daejeon, Korea
http://www.iros2016.org

23rd ITS World Congress
October 10-14, 2016
Melbourne, Australia
http://www.itsworldcongress2016.com

Seminars and Dagstuhl Perspectives Workshops 2016
Schloss Dagstuhl, Germany

February 27 - March 01, 2017
Porto, Portugal
http://www.visigrapp.org
September 22, 2016

Intertraffic Amsterdam 2016
April 5-8, 2016
Amsterdam, Netherlands
http://www.intertraffic.com/amsterdam/

SAE 2016 World Congress & Exhibition
April 12-14, 2016
Detroit, Michigan, USA
https://www.sae.org/congress/

2nd International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2016)
April 23-24, 2016
Rome, Italy

IEEE International Conference on Robotics and Automation (ICRA 2016)
May 16-21, 2016
Stockholm, Sweden
http://www.icra2016.org

The 5th International Conference on Connected Vehicles & Expo (ICCVE 2016)
September 12-16, 2016
Seattle, WA, USA
http://www.iccve.org/
Submission due by: To be determined
Forthcoming papers on IEEE Transactions on ITS

Vibrotactile Displays: a Survey With a View on Highly Automated Driving
PETERMEIJER, SEBASTIAAN; DE WINTER, JOOST; BENGLER, KLAUS

Intelligent Transportation Systems and Powered Two Wheelers Traffic
BARMPOUNAKIS, EMMANOULI; VLAHOGIANNI, ELENI; GLIAS, JOHN

Modeling Vehicle Merging Behavior at Work Zone Merging Areas during the Merging Implementation Period
WANG, JINXIAN; XUE, SHAN; YAN, XUEDONG

Multi-part Vehicle Detection using Symmetry Derived Analysis and Active Learning
SATZODA, RAVI KUMAR; TRIVEDI, MOHAN

Non-Intrusive Planning of the Roadside Infrastructure for Vehicular Networks
SILVA, CRISTIANO; MEIRA, WAGNER; SARUBBI, JOÃO

Macroscopic Modeling and Control of Reversible Lanes on Freeways
FREJO, JOSE RAMON DOMINGUEZ; PAPAMICHAIL, IOANNIS; PAPAGEORGIOU, MARKOS; CAMACHO, EDUARDO

ART: an Attack-Resistant Trust Management Scheme for Securing Vehicular Ad Hoc Networks
LI, WENJIA; SONG, HOUBING

Fast and Robust Vanishing Point Detection for Unstructured Road Following
SHI, JINJIN; WANT JINXIANG; FU, FANGFA

Detecting Drivers’ Mirror-Checking Actions and its Application to Maneuver and Secondary Task Recognition
BUSSO, CARLOS; LI, NANXIANG

Analyzing Highly Cited Paper in Intelligent Transportation Systems
COBO, MANUEL; MORAL-MUÑOZ, J.A.; CHICLANA, FRANCISCO; COLLOP, ANDY; HERRERA-VIEDMA, ENRIQUE

Fast Detection of Multiple Objects in Traffic Scenes with a Common Detection Framework
HU, QICHANG; PAISITKRIANGKRAI, SAKRAPEE; SHEN CHUNHUA; HENGEL, ANTON; PORIKLI, FATIH

Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad-hoc Networks
VIJAYAKUMAR, P; AZEES, M; KANNAN, A; JEGATHA DEBOARH, L

Robust and Scalable Management of Power Networks in Dual-Source Trolleybus Systems: A Consensus Control Framework
ZHUANG, DI; JIANG, JIUCHUN; WANG, LE YI; ZHANG, WEIGE

Real-Time Global Localization of Robotic Cars in Lane-Level via Lane Marking Detection and Shape Registration
XUE, JIANRU; CIU, DIXIAO; ZHENG, NANNING

Heavy-Duty Vehicle Platoon Formation for Fuel Efficiency
LIANG, KUO-YUN; MÄRTENSSON, JONAS; JOHANSSON, KARL

Discriminative Weighted Sparse Partial Least Squared for Human Detection
WNAG; HANZI; LI, QIMING; YAN, YAN
Forthcoming papers on IEEE Transactions on ITS

**Sensor Fusion Algorithm Design in Detecting Vehicles using Laser Scanner and Stereo Vision**
HUH, KUNSOO; KIM, SEUNGKI; KIM, HYUNKYO; YOO, WONSEOK

**An Autonomous Information Collection and Dissemination Model for Large-Scale Urban Road Networks**
ZHANG, QI; ZHENG, HAO; PENG, HONG AN, JIANWEI; LAN, JINHUI

**Vehicle License Plate Recognition Based on Extremal Regions and Restricted Boltzmann Machines**
GOU, CHAO; WANG, KUNFENG; YAO, YANJIE; LI, ZHENGXI

**Driver Distraction Detection Using Semi-Supervised Machine Learning**
YANG, YAN; LIU, TIANCHI; HUANG, GUANG-BIN; YEO, YONG KIANG; LIN, ZHIPING

**3D Traffic Scenes Simulation from Road Image Sequences**
SU, YUANQI; LI, YAOCHEN; LIU, YUEHU; HUA, GANG; ZHENG, NANNING

**A Review of Motion Planning Techniques for Automated Vehicles**
GONZALEZ, DAVID; PEREZ, JOSHIUE; MILANES, VICENTE; NASHASHIBI, FAWZI

**Improvement of Search Strategy with K-Nearest-Neighbors Approach for Traffic State Prediction**
YEO, HWASOO; OH, SIMON; BYON, YOUNG-JI

**A Forward Collision Warning Algorithm with Adaptation to Driver Behaviors**
WANG, JIANQIANG; YU, CHENFEI; LI SHENGBO; WANG, LIKUN

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LI, LI; WEN, DING

**Resource Allocation for Vehicle-to-Infrastructure Communication using Directional Transmission**
LEE, WOONGSUP; PYUN, SUNG-YEOP; CHO, DONG-HO

**Space Traffic Safety Management and Control**
WANG; ZHAOKUI; ZHANG, YULIN

**A Dynamic Network Modeling Based Approach for Traffic Observability Problem**
AGARWAL, SHAURYA; KACHROO, PUSHKIN; CONTRERAS, SERGIO
Forthcoming papers on IEEE Trans. on Intelligent Vehicles

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BENJAMIN RANFT, CHRISTOPH STILLER

Challenges in Perception and Decision Making for Intelligent Automotive Vehicles: A Case Study

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BRIAN PADEN, MICHAL CAP, SZE ZHENG YONG, DMITRY YERSHOV, EMILIO FRAZZOLI

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GEERT TASSERON, KAREL MARTENS, ROB HEIJDEN

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IBRAHIM SEMIZ

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YUE BAO, ZIYOU GAO, MENG XU

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4. **A Kind of Novel ITS Based on Space-Air-Ground Big-Data**

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Samy El-Tawab
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