CALL FOR PAPERS

23RD ITS WORLD CONGRESS 2016
10–14 October 2016 | Melbourne Convention and Exhibition Centre

ITS - Enhancing Liveable Cities and Communities

MEET IN ASIA PACIFIC FOR THE WORLD’S LEADING TRANSPORT TECHNOLOGY EVENT
ACTIVATING GLOBAL MOBILITY SOLUTIONS

CALL FOR PAPERS • OPEN 31 OCTOBER 2015 • DEADLINE 13 JANUARY 2016
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KEY DATES

ONLINE SUBMISSION OPENS
31 October 2015

SUBMISSION DEADLINE
13 January 2016

REGISTRATION OPENS
April 2016

AUTHOR NOTIFICATIONS
April 2016

DEADLINE FOR RESUBMISSION OF
CONDITIONALLY ACCEPTED PAPERS
June 2016

FINAL PAPER SUBMISSION
August 2016

SPEAKER REGISTRATION DEADLINE
August 2016
It is with great pleasure that I invite you to Melbourne to participate in the ITS World Congress, October 10 to 14, 2016. ITS Australia is delighted to be hosting the 23rd World Congress on Intelligent Transport Systems 2016 on behalf of ITS Asia Pacific, ITS America and ERTICO.

“ITS—Enhancing Liveable Cities and Communities” is the theme for the Congress, bringing Melbourne’s reputation as the world’s most liveable city into the spotlight as we explore the benefits that ITS delivers to critical elements of our daily life.

Australia is at the forefront of development and deployment of ITS technologies in many fields. With a unique landscape Australia’s ITS industry has risen to the challenge of delivering solutions to enhance our daily lives. Our population is clustered in big cities with large urban areas where ITS technology such as managed motorways, free flow tolling and smart technology for public transport are being leveraged to maintain the mobility of our growing cities. Long transport distances across our vast country encourage innovation and adoption of technology across our heavy vehicle fleet to enhance safety and efficiency. Australia has a strong and innovative mining sector that has embraced ITS technology such as driverless trains and trucks to improve efficiency and safety in tough economic conditions. Similar to other countries, the important contribution that ITS can make to emergency management on our highway system and to minimising harm from natural disasters has been recognised and is increasingly being deployed to great effect.

In collaboration with ITS Asia Pacific, ERTICO and ITS America, ITS Australia is working to prepare an engaging program. In the tradition of ITS World Congresses there will be executive, plenary, scientific, technical and interactive sessions, a dynamic exhibition plus technical demonstrations and tours that showcase the applications of the latest ITS technology. This will be an opportunity for policy makers, practitioners, researchers and ITS providers to share information on big data analytics, smart cities, vehicle and network safety, cooperative and automated vehicles, future freight and many other innovations in ITS. Business opportunities, social needs and improved community liveability will be high on the agenda.

By 2016, living in an ever connected world, these themes will be even more pressing in our busy cities and communities. This World Congress will be Australia’s opportunity to foster further international cooperation in unleashing the power of ITS.

While visiting the World Congress I encourage you to extend your stay to experience the hospitality and natural beauty of Australia and our close neighbour New Zealand. We look forward to warmly welcoming you all to Melbourne in 2016.

Brian Negus
ITS Australia President and ITS World Congress 2016 Chair
ERTICO

On behalf of ERTICO – ITS Europe and its Partners, I would like to invite you to attend the 23rd ITS World Congress in Melbourne in 2016. Fast, safe, reliable and efficient transportation has been one of the most important elements of the society for economic growth and enhanced quality of life. We are now at the outset of an endeavor with a new set of technologies which will change the way we observe phenomena in transportation and act on it.

Penetration of information and communication technologies to our daily life has given significant impact on our society. Highly automated cars will be put into market within a decade, which will dramatically reduce traffic accidents and congestion and also enable aged or challenged people to go out on their own.

Inclusive society, where diverse people in diverse community actively participate in generating values, will enhance both wellness of individuals and economic development. However, technologies alone won’t bring about solutions. We need to take an integrated approach combining state of the art technologies with social innovations.

ITS technologies integrated with social innovations should provide everyone with mobility to fully exercise his or her capacity, enabling sustainable development of the society.

The ITS World Congress in Melbourne is exactly where you find right experts from industries, academic societies and government agencies. Policies, technologies, institutional issues and human factors are all covered with supporting facts and experiences.

I hope the ITS World Congress will trigger a massive process of Enhancing Liveable Cities and Communities.

Hermann Meyer
Chief Executive
ERTICO - ITS Europe

ITS AMERICA

On behalf of ITS America, I am pleased to invite you to attend the 23rd World Congress on Intelligent Transport Systems (ITS) taking place in Melbourne, Australia, from October 10 – 14, 2016.

The theme of the Congress, “ITS—Enhancing Livable Cities and Communities,” will address the many benefits that ITS technologies bring to our daily lives and to our increasingly connected global economy.

Building on the success of Detroit and Bordeaux, the 23rd World Congress will take on discussions of how to advance new technologies to increase connectivity, improve mobility and create a safer, more reliable and convenient transportation network. With sessions on topics including open data, automated vehicles, smart cities and new mobile applications, submitting a paper or special interest session proposal is a great way to participate and help generate new ideas for advancing ITS solutions.

The ITS World Congress is an opportunity for policymakers, investors, practitioners, researchers and ITS providers to learn about the latest innovations and discuss best practices with other leaders from around the world. It will be one of the most valuable educational, networking and collaborative global events you’ll attend in 2016.

I look forward to seeing you in Melbourne at the 2016 ITS World Congress!

Regina Hopper
President and Chief Executive
ITS America

ITS ASIA PACIFIC

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Secretary General
ITS Asia-Pacific

Hajime Amano

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Australia’s advanced development and deployment of ITS technologies across many sectors has helped to ensure Melbourne’s position as the world’s most liveable city for 5 years in a row and as an ideal venue for hosting the 2016 World Congress. European ITS stakeholders are very much looking forward to visiting and engaging in discussions on the role ITS has to play in our future transportation.

I look forward to meeting you in the exciting and vibrant city of Melbourne, and to participating together in the wide range of events planned for the Congress.

Hermann Meyer
Chief Executive
ERTICO - ITS Europe

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Hermann Meyer
Chief Executive
ERTICO - ITS Europe
THE CONGRESS
ITS - Enhancing Liveable Cities and Communities

It is a great honour for Australia to be selected as the host national for this prestigious event. Surging growth in international demand will ensure that this gathering of ITS researchers, developers and users will be among the largest meetings in Melbourne during 2016.

ITS technologies include communication, data processing and electronic technologies for in-vehicle, vehicle-to-vehicle, vehicle-to-infrastructure and mode-to-mode systems that increase transport safety and mobility, improve the sustainability of travel, reduce congestion, and improve the performance and competitiveness of all modes of transport.

Australia organised the successful 2001 ITS World Congress in Sydney. We will build on that experience, and with the collaboration of our international friends, Melbourne will host a 2016 World Congress to help all cities and communities to become more liveable.

WHO SHOULD ATTEND

Transportation, technology, and business professionals involved in any aspect of the growing field of intelligent transportation systems, whether involved in research, planning, deployment, or operation, should make plans to attend this event.

And in this dynamic field, experts from the fields of investment and finance, communications, security and public safety, and insurance are playing dynamic roles alongside their colleagues in the transportation profession and are invited to participate in wide ranging conversation about the future of transportation and the essential role ITS is playing to make our transportation systems safer, less congested, and environmentally sustainable.

SAVE THE DATE

10-14 October 2016
Melbourne Convention and Exhibition Centre
SCIENTIFIC AND TECHNICAL PAPER TOPICS

Challenges and Opportunities of Big Open Data

The promise of Big Open Data is unlimited. The data and technology are there, and open access is increasing. The dramatic increase in data from infrastructure, vehicle and consumer sensors is complemented by organisations opening up access to their previously proprietary data. How do we now deliver the full promise of Big Open Data both within the industry and to consumers? How can we use this data to solve problems such as congestion, improving the practicality of car-pooling, multi-modal journey planning or simply keeping consumers informed? How can we manage issues such as privacy, data ownership and liability?

- Open data management and application
- Data sharing and exchange
- Ubiquitous sensing
- Technology for data collection
- Availability and quality of data
- Data visualisation
- Data fusion
- Predictive analytics
- New business models for traveller information
- Security in an open environment

Automated Vehicles and Cooperative ITS

There are many problems associated with road use – fatality and injury, congestion, stress, pollution… Could automated and connected vehicles offer a transport nirvana, and if so, how can we get there? What are the barriers remaining on the road to automated and connected mobility and how and when will they be overcome? How will we manage the mixing of automated and legacy vehicles and vulnerable road users such as pedestrians and cyclists? Will the sharing economy mean that cars no longer sit idle for 23 hours a day and what might mobility as a service mean for our cities?

- V2X Communication technologies and Cooperative systems
- Human factors and human machine interface
- Field operational tests, pilots and demonstrations
- Positioning, mapping and navigation
- Security and integrity for connected and automated vehicles
- Mobility as a service - a transport revolution?
- Infrastructure and regulation needs for a mixed-capability fleet

Smart Cities and New Urban Mobility

Cities continue to be engine rooms of global economic growth as well as prime centres of population growth. How can ITS help cities avoid being the victims of their own success, so that growth does not mean reducing liveability? Can new approaches to pricing help manage demand and provide more sustainable funding? Can next generation traffic management and incident management help smart infrastructure cater for these changing demands as well improve customer journey experiences? How can we make cities friendlier to people through integrated public transport, smarter parking and pedestrian friendly zones?

- Integrated transport system
- Next generation traffic management
- Transport modelling
- Road user charging
- Travel demand management
- Integrated ticketing and payment
- Incident management

Mobile Applications

It’s a mobile and increasingly connected world. Many of us knew a world where work could be done only at the office, but now every aeroplane, train, bus, café and home can also be a workplace. People demand information anywhere and at any time it is useful to them and the explosive growth of smartphones had led to all-conquering ‘app’. As these apps start to appear on our dashboard and our cars use smartphones for infotainment, do any boundaries remain? How can we continue to provide an ever better customer journey experience and move from customers searching for relevant information to that information proactively coming to them?

- Multi modal real time information
- Multi modal journey planner
- Demand responsive public transport
- Taxi and parking reservation
- Real time traffic advisory
The guiding vision of a safe system is that no person should be killed or seriously injured on our roads. How can we use ITS to help make this vision a reality? How can ITS help safer roads and roadides, safer vehicles, safer drivers and safer speeds to avoid crashes from occurring? How can we improve post-crash responses so that more victims survive? How can we protect our most vulnerable road users?

- Speed advice and restriction
- Technology and system for safety and enforcement
- Advanced driver assistance and support systems
- Human factors
- Emergency pre-emption and notification
- Post-crash response
- Improving safety of vulnerable road users
- e-call
- Roadwork safety and inclement weather management
- Preventative and active safety systems

We all share the world in which we live and we need to care for this world. How can ITS make transport more environmentally sustainable, reducing not only its carbon footprint but also pollution and noise? How can we make active transport more convenient and appealing as part of a more liveable city? How can we help reduce the number of cars with only one occupant? How can we help accommodate the electrification of the vehicle fleet?

- Environmental impact reduction
- Electro mobility and charging
- Eco driving
- Reducing noise
- Car sharing, bicycle sharing and ride sharing
- Encouraging active transport and mode shift

Our economies depend on goods moving safely, efficiently and reliably on road, on rail, on water, through the air and through terminals. How can we use ITS to achieve smarter future freight? What role might unmanned vehicles play, on road, on rail, on water, through the air and through terminals? How can we offer seamless multi-modal solutions to customers and differentiate solutions for differing needs?

- Freight and fleet management
- Logistics
- Ports and border crossings
- Railway network operation
- Unmanned aerial vehicles (UAS / RPAS / Drones)
- Airspace management and navigation

Successful ITS requires not only smart technologies but also policy and regulatory frameworks, governance and collaboration, defined architecture and standards and successful funding strategies and business models. How can we continue to strengthen these foundations for success and continue to address issues such as liability and privacy?

- Standardisation and architecture
- Transport policy and strategy
- Regulation and enforcement
- Funding strategies and business models
- Liability and privacy opportunities and challenges for connected
- Measuring / Demonstrating the benefits (and costs) of ITS solutions and automated vehicles
CONGRESS FORMAT

Plenary Sessions
International top level transport officials and leading industry representatives will present insightful speeches on ITS policies, initiatives and international development trends. These are must-attend sessions.

Executive Sessions
High-level industry executives, public officials and academia experts from around the world will share their global and strategic views on ITS achievements, issues and challenges.

Special Interest Sessions
Organized at the request of organizations or experts involved in developing and deploying ITS, these sessions are designed as open forum for experts from government, industry and academia to hold discussions and debates on specific topics.

Technical / Scientific Sessions
These sessions are composed of presentations by international experts on various ITS-related topics encompassing all technical, economic, organizational and societal aspects of ITS. They will focus on the academic research and realization of ITS technologies in our lives currently carried out by experts and professionals.

Interactive Sessions
These sessions provide a space for an interactive discussion via two-stage presentations including a short oral presentation followed by a poster presentation. This climate of free, face-to-face dialogue leads to further innovations in the field.

Commercial Sessions
These are presentations of Technical or/and Scientific Papers judged by reviewers and the International Program Committee to be "near-market" rather than "pre-market", or where authors have specifically requested the specialised Commercial Theatre located in the Exhibition Hall. Commercial Papers describe an activity aimed at generating or improving a specific product, device or idea for the market. Any registered attendee (including exhibitors and visitors) can attend any session taking place in the Commercial Theatre.

Commercial presentations will take place in the Exhibition Hall and are an opportunity for exhibitors and sponsors to provide more information about their commercial products and services. For more information, or to specifically book a reserved time-slot in the Commercial Theatre, please contact Jerome Buchanan, Sponsorship Development Manager at sponex.sales@itsworldcongress2016.com

PUBLICATION OPPORTUNITY

Scientific papers will be reviewed by highly qualified reviewers from each of the three World Congress regions and must meet high scholarly standards to be accepted. Selected papers will be invited to publish in partner journals, International Journal of Intelligent Transport Systems Research and IET Intelligent Transport Systems.
GENERAL INFORMATION

VENUE
Melbourne Convention and Exhibition Centre (MCEC) bring people together to deliver world-class events and create memorable visitor experiences. MCEC provides you with the right spaces to connect, leading technology, award-winning food made in-house and exceptional customer service. Located on the banks of the Yarra River, MCEC offers sweeping city views, is only two traffic lights from the airport and a short stroll to Melbourne’s city centre. Add all of this to Melbourne’s unique character – a vibrant city with a relaxed atmosphere – and you’ll find yourself in the perfect place to share, and connect in one of the world’s most liveable cities.

MCEC was recognised as Australasia’s Leading Meetings and Conference Centre in 2012, 2013 and 2014 by the prestigious World Travel Awards.


REGISTRATION
Online registration for the 23rd Intelligent Transport Systems World Congress will be open from April 2016.

Subscribe to receive the regular newsletters to stay up to date and be in the running to win an exciting balloon ride over Melbourne!

WEBSITE
Go to the website for the most up-to-date information: www.itsworldcongress2016.com

CONGRESS LANGUAGE
The official language of the Congress is English and all mainstream sessions will be delivered in English.
Submit a Special Interest Session proposal (SIS)

A limited number of Special Interest Sessions will be included in the program, in addition to conventional presentations, interactive sessions, executive and plenary sessions. Organised at the request of organisations or experts developing and deploying ITS, these interactive, tailor-made sessions will delve into topics and offer fresh perspectives and insight.

At recent World Congresses there have been substantially more Special Interest Session proposals than there are slots available. To ensure as wide a range of sessions as possible and to facilitate selection on merit, the International Program Committee requires that submissions must meet tighter selection criteria, and that:

- Bids will not be considered unless the name, email address and telephone details of the moderator and at least 3 confirmed speakers are provided.
- If a majority of speakers named in the Provisional Program are not registered by the speaker deadline, then the Session will be closed and the slot given to a candidate from the reserve list.
- SIS proposals that address a single project will be given low priority compared to those that tackle a broad area.
- The International Program Committee reserves the right to combine provisionally approved sessions and review the speakers for the resulting session.

Please note: Upon completion of your contribution, the system will generate an acknowledgment email with your Session number and confirming your contact details and chosen topic. This does not mean that the Session has been accepted.

Review of Submissions

REVIEW AND SELECTION OF DRAFT PAPERS

All draft papers submitted on time and in the correct format are sent to external expert reviewers who are asked to score papers according to the quality of the research or project being presented as well as to the topicality, comprehensiveness and clarity of the content. Authors will be notified of the outcome of their submission by email by April 2016. Drafts may be:

- Accepted immediately and invited to submit the full version by April 2016.
- Rejected with an explanation of the reasons - for rejected papers there is no presentation possibility during the Congress.
- Conditionally Accepted and asked to resubmit their paper by June 2016, after which a final decision of ‘Accepted’ or ‘Rejected’ will be made and the result sent to the author.

REVIEW AND SELECTION OF SPECIAL INTEREST SESSIONS PROPOSALS

The International Program Committee assesses the proposals for Special Interest Sessions that have been submitted on time and in the specified format and selects those that it wishes to accept initially together with a short reserve list. Session organisers will be notified of the outcome of their submission by April 2016. For unsuccessful proposals there will be no further opportunities to stage a Session at the Congress. Session organisers might be requested by the Program Committee to improve or fine-tune the description and/or the list of proposed speakers.

- All session proposals must be submitted online using the official Paper Submission Portal accessed via the congress website www.itsworldcongress2016.com Submissions sent by mail, fax, or email will not be accepted, and will be ignored.
- The sessions that appear to be commercial sales pitches for a given product or company will automatically be rejected from the formal SIS program, and will instead be referred to the ITS16 Sponsorship Development Manager to discuss presentation opportunities within a wider sponsorship / branding partner package. Enquiries to: sponex.sales@itsworldcongress2016.com
- Upon submission, you will be requested to provide the following information:
  - Organiser’s full contact details
  - Topic, subtopic, and focus area
  - Session title
  - Session description
  - Name and contact details of moderator and 3 confirmed speakers (including job title, organisation, country and valid email address)
  - Further information about the session

SUBMISSION MANAGEMENT

Judy Kingston, Program Manager
ITS World Congress 2016 Melbourne
program@itsworldcongress2016.com
+61 3 9320 8631

Submission Deadline: Wednesday 13 January at 23:59 (midnight) Australian Eastern Daylight Saving Time
INTERNATIONAL PROGRAM COMMITTEE

ASIA PACIFIC

Yousuke Akatsu, Nissan Motor Co., Ltd., Japan
S.K. Jason Chang, National Taiwan University, Chinese-Taipei
Edward Chung, Queensland University of Technology, Australia
Sue Harris, ITS Australia, Australia
Mohammed Hikmet, HMI Technologies Limited, New Zealand
Masahiko Ikawa, Mitsubishi Electric Corporation, Japan
Weyun Jiao, China National ITS Center, China
Ming Joo, Nanyang Technological University, Singapore
Shunsuke Kamijo, The University of Tokyo, Japan
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Hiroyuki Kumazawa, Osaka Sangyo University, Japan
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Siew Mun Leong, ITS Malaysia, Malaysia
Young-Jun Moon, The Korea Transport Institute, Korea
Brian Negus, Royal Automobile Club of Victoria (RACV), Australia
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Tongyan Qi, Chinese Science Center of International Eurasian Academy of Sciences, China
Takaaki Segi, ITS Japan, Japan
Seung-Ne0 Son, ITS Korea, Korea
Shigetoshi Tamoto, Sumitomo Electric Industries, Japan
Dean Zabrieszach, HMI Technologies Limited, Australia

LOCAL PROGRAM SUB-COMMITTEE MEMBERS

Co-Chairs:
Edward Chung, Queensland University of Technology
Brian Smith, Intelemetrics

Phil Davies, Infrastructure Australia
Hussein Dial, Swinburne University of Technology
Dean Economou, Data61
Glenn Geers, ARRB
Susan Harris, ITS Australia
Mohammed Hikmet, HMI Technologies
Fran Kerlin, City of Melbourne
Bipin Mistry, Royal Automobile Club of Victoria (RACV)
Alexander Richardson, Blue Scope Steel
Majid Sarvi, Monash University
Nirajan Shiwakoti, Royal Melbourne Institute of Technology (RMIT)
Janet Sofonidis, ITS Australia
Andrew Somers, Transopt
Kim Thomas, Aurecon
Russell Thompson, University of Melbourne
Marcus van der Velden, Arcadis
Hai Vu, Swinburne University of Technology
John Wall, Transport for NSW
Deryk Whyte, ITS New Zealand
Marian Willberg, Transport for New Zealand
Stephan Winter, University of Melbourne
Dean Zabrieszach, HMI Technologies

EUROPE

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Didier Gorteman, ERTICO - ITS Europe, (Chairman)
Angelos Amidis, ICCS, Greece
Ashwini Beetharee, Satellite Applications Catapult, UK
Marie de Vreeze, Connext / ITS Netherlands, The Netherlands
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David Hych, Parkgate Consultants, United Kingdom
Christer Karlsson, ITS Sweden, Sweden
Risto Kulmala, Finnish Transport Agency - FTA, Finland
Scott Lees, Transport Scotland, United Kingdom
Rasmus Lindholm, ERTICO - ITS Europe
Meng Lu, Rim-Z-Rim Transport and Logistics, The Netherlands
Colette Maloney, DG CONNECT, European Commission
Jennie Martin, ITS United Kingdom, United Kingdom
Jean-Philippe Ménich, Cerema, France
Patrick Mercier-Handisyde, ITS Network France, France
Risto Kulmala, Finnish Transport Agency - FTA, Finland
Nour-Eddin El Faouzi, IFSTTAR, France

AMERICAS

Susan Bai, Ramboll, USA
Hamed Benouar, Sensys Networks, USA
Robert Bertini, Portland State University, USA
Richard Bishop, Bishop Consulting, USA
Armand Ciccarelli, Appian Strategic Advisors, USA
Stan Caldwell, Carnegie Mellon University, USA
Heinz III College, USA
Pete Costello, INRIX, USA
C Douglass Couto, Public Sector Consultant, USA
Steven W Dellenback, Southwest Research Institute, USA
Richard B Easley, E-Squared Engineering, USA
John J Funny, Grice & Associates, USA
Edward R Griffor, Chrysler Group, USA
Dawn Hardesty, Noblis, USA
Jason JonMichael, HNTB Corporation, USA
Manjunathan Kumar, California Center for Innovative Transportation (CITC) / University of California Berkeley, USA
Jane Lappin, John A Volpe National Transportation Systems Center, USA

US Department of Transportation, USA
Harry List, ITS Joint Program Office, Research and Innovative Technology Administration, USA
Department of Transportation, USA
Bob McQueen, The O Cash Company, USA
Robert Rausch, TransCore, USA
Shelley hour, Shelley Row Associates, USA
Louis F Sanders, American Public Transportation Association (APTA), USA
Carol L Schweiger, USA
Ed Seymour, Texas Transportation Institute (TTI), USA
Laura El, American Public Transportation Association (APTA), USA

USA

Robert Bertini, Portland State University, USA
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