



17th Asia Pacific Forum on Intelligent Transport Systems

Brisbane Convention & Exhibition Centre
Queensland, Australia | 25–28 May 2020

ITS Innovation Creating Liveable Communities

Submission Guidelines

The theme of the 17th ITS Asia Pacific Forum 2020 is ITS Innovation Creating Liveable Communities. You are invited to submit a paper or special interest session (SIS) to be considered for presentation and publication at the ITS Asia Pacific Forum 2020.

Key dates

Paper submission opens

May 2019

Paper submission closes

6 September 2019

Registration opens

September 2019

Author notifications

November 2019

Final paper submission

March 2020

Submission Deadline:

Friday 6 September 2019 at 23:59 (midnight) AEST

Guidelines

- Authors may submit technical or scientific papers for conventional presentations or interactive sessions. The interactive sessions are based more around interactive discussions and so are highly effective for establishing valuable contacts and exchanging information.
- Papers from authors working for, or in close collaboration with, commercial companies are welcome; their presentation format will depend on their content. If a paper describes unspecified, open research or a pre-market activity it will be assigned to a conventional "Technical" Session. By "pre-market" we mean work aimed at generating new knowledge which is not at present linked to the development of a specific product, although it is likely to be commercially exploitable in due course.
- Papers that are "near-market" rather than pre-market and submitted by authors as Commercial Papers (or papers judged by reviewers to be near-market), will be presented in the Commercial Theatre within the exhibition area.
- It is not necessary to submit the same paper under different types (Technical/Scientific/Commercial).
- All proposals must be original and report on recent significant and substantive achievements.
- Topics may address any mode of transport.
- The official Forum language is English. Papers not submitted in English will automatically be rejected.

TECHNICAL PAPERS may address the institutional, business, societal and economic aspects of ITS, as well as technical subjects.

- Please submit a draft technical paper of up to 3 pages in Microsoft Word format.
- The technical papers must be original, relevant and significant.
- Authors of accepted papers must submit the final paper, no longer 12 pages online through the submission website by March 2020.

SCIENTIFIC PAPERS should concentrate on research and scholarships as they will be independently refereed in accordance with academic journal standards.

- Please submit a full paper of up to 12 pages in Microsoft Word format.
- The scientific papers will be reviewed by highly qualified reviewers and must meet high scholarly standards to be accepted.
- Papers which are submitted as Scientific Papers, but which are not judged to be of this top rating standard or relevance, may still be accepted as Technical Papers.

COMMERCIAL PAPERS are those describing near-market work. They should be specific rather than general and describe an activity aimed at generating or improving a specific product, device or idea for the commercial market.

- Please submit a draft commercial paper of up to 3 pages in Microsoft Word format.

Future Leaders Submissions

ITS Asia Pacific 2020 values the contributions of the industry's future leaders and would like to provide students with the opportunity to develop the skills that they will need in their future academic and professional careers.

Alongside the formal paper submission, future leaders are invited to submit a poster presentation using the official ITS Asia Pacific 2020 poster template.

Future leaders will then be offered either an electronic poster display or rapid fire presentation within the official program.

Please note:

Upon completion of your submission, the system will generate an acknowledgment email with your paper number and confirming your contact details and chosen topic.

This does not mean that the paper has been accepted.

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General Information

VENUE

Brisbane Convention & Exhibition Centre (BCEC) is ideally located in South Bank, a unique riverside urban arts and lifestyle precinct adjacent to the CBD, home to Australia's newest and largest Gallery of Modern Art, opera companies, symphony orchestras, performing arts and more than 70 sidewalk cafes and restaurants and a wide selection of stylish shops.

South Bank is a 'green' oasis with riverfront parkland, green spaces, rainforest pockets and Australia's only inner city sand and swimming beach.

The convention centre is Australia's most awarded convention centre and is officially ranked among the top three convention centres worldwide by the Association Internationale des Palais de Congres (AIPC). A world-class venue, the convention centre provides superb flexibility and versatility and offers a comprehensive range of fully integrated in-house services all under the one roof and delivered by our team of experienced professionals whose commitment to excellence extends across all events.

For more information visit www.bcec.com.au.

WEBSITE

Go the official ITS Asia Pacific 2020 website for the most up-to-date information www.itsap2020.com

FORUM LANGUAGE

The official language of ITS Asia Pacific 2020 is English and all sessions will be delivered in English.

PROGRAM MANAGER

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Submit a Special Interest 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.

To ensure as wide a range of sessions as possible and to facilitate selection on merit, the ITS Asia Pacific 2020 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 ITS Asia Pacific 2020 Program Committee reserves the right to combine provisionally approved sessions and review the speakers for the resulting session.
- All session proposals must be submitted online using the official paper submission portal accessed via the forum website www.itsap2020.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 ITS Asia Pacific 2020 Sponsorship Development Manager to discuss presentation opportunities within a wider sponsorship / branding partner package. Enquiries to: danny.perry@mci-group.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

Please note:

Upon completion of your submission, the system will generate an acknowledgment email with your paper number and confirming your contact details and chosen topic.

This does not mean that the paper 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 **November 2019**.

Drafts may be:

- **Accepted** immediately and invited to submit the full version by **March 2020**.
- **Rejected** with an explanation of the reasons - for rejected papers there is no presentation possibility during the Forum.

REVIEW AND SELECTION OF SPECIAL INTEREST SESSIONS PROPOSALS

The ITS Asia Pacific 2020 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 **November 2019**. For unsuccessful proposals there will be no further opportunities to stage a Session at the Forum. Session organisers might be requested by the Program Committee to improve or fine-tune the description and/or the list of proposed speakers.

PRESENTER TASKS AND WORKLOAD

Presenting at the AP 2020 Forum involves a significant amount of preparation, including the submission of a paper (for authors presenting a paper), a PowerPoint presentation and coordination with the moderator of the session. This preparatory work is essential to maintaining the high quality standards of these regional Forums. It is very important that deadlines are met to ensure the preparation for the event is as smooth as possible.

REGISTRATION OF ALL SPEAKERS

A registration fee is associated with the ITS Asia Pacific 2020 Forum. All accepted and invited paper speakers and special session moderators and speakers are required to register on time and pay accordingly for the Forum. The main author or designated speakers are required to register when submitting their final paper. All speakers must register, failure to do this could result in losing your presentation slot.

Paper topics



Mobility as a Service, People and Environmental Sustainability

Mobility as a Service (MaaS) has become one of the fastest growing sectors in the ITS industry. MaaS is a key contributor to smart transport and the liveability of our cities, suburbs and regional communities. MaaS coincides with other customer centric, demand responsive transport initiatives to mark a global trend towards sustainable and accessible urban mobility.

- MaaS ecosystem, integrated transport system, integrated ticketing and payment
- Seamless mobility and public transport, first and last mile, ride sharing
- Connectivity and traveller information, journey planning
- Crowd movement, asset management, managing expectations and disruption
- Environmental impact reduction, electro mobility and charging, hydrogen and alternate fuels
- Community transport, micro-mobility, regional and rural areas
- Transition and legacy, customer experience and expectations



Transport Pricing, Tolling and Charging

Transport pricing can benefit from emerging tolling technologies, payment integrations and upgrade in infrastructures to enhance a seamless experience for travellers and lift operational efficiencies. Operators can leverage connectivity and data analytics to deliver demand responsive pricing schemes that are complimentary to new mobility.

- National electronic Tolling and Charging (NeTC)
- Emerging and disruptive tolling technology
- Case studies and current projects
- International tolling and road user trends
- Customer and user experience, changing behaviour of road users
- Payment innovations
- Compliance enforcement and disputes
- Data analytics and sharing
- Road user charging and smart city trends
- Asset management



Connected and Automated Vehicles, Vehicle and Network Safety, Internet of Things in Transport

Connected and Automated Vehicles (CAVs) are transforming the norm of transport industries. The development on CAVs has benefited from technologies in automation, sensing, connectivity, navigation and safety enforcement. Trials of CAVs have been seen in various places around the world with the intent to understand the operation environment, the ecosystem and the implication to urban mobility.

- Pilots and demonstrations
- Infrastructure for CAVs
- Navigation and localization systems, satellite communications, GIS and maps
- Advanced driving assistance systems, vehicle dynamics and control
- Advanced sensing recognition systems
- Human factors and human machine interface for CAVs
- Technologies for safety and enforcement, emergency pre-emption and notification, post-crash response
- Connected ITS devices for pedestrians, transport and road operations, surveillance
- V2X technologies and cooperative systems
- Distributed and Edge computing, 5G communications, cyber security
- Technologies to achieve behaviour change, transition and legacy



Data Analytics and Artificial Intelligence in Transport

Data analytics derive actionable insights from the vast quantity of data generated from various transport systems. The impact of data analytics is amplified by an ecosystem consists of data service suppliers, platform providers, regulators and end users. Such an ecosystem supports the utilisation of data for the development in advanced learning models that are the building blocks for Artificial Intelligence in transport.

- Predictive analytics, machine learning and artificial intelligence
- Data fusion, visualisation and business intelligence
- Regulatory and policy aspects of open data, data sharing and brokerage
- Data security and privacy
- Vehicular signal processing, vehicle on-board diagnostics
- Next generation traffic management
- Transport modelling and simulation



Freight and Logistics, including Aviation and Maritime

The freight and logistics industries are moving into a new era marked with increasing automation, intelligence and multi-modality. This trend is coupled with regulatory reforms that are steering the industries towards a safer, greener and sustainable future.

- Automated freight and logistics
- Fleet management, automated fleets
- Ports and border crossings
- Railway network operations
- Intelligent electrified vehicles
- Drones, airspace management and navigation
- Multi modal approaches and interfaces
- Last mile efficiencies



Intelligent Transport = Accessible Transport

The pace of change is increasing exponentially, and as a result our environment and behaviour are changing just as fast: both as transport providers and customers. Advances in transport technology and planning, such as autonomous vehicles and Mobility as a Service (MaaS) are excellent examples of changes that, within five years will directly impact how our customers move throughout our network to access education, employment, recreation and vital social services. Those within the transport industry need to keep pace with this change to constantly meet the needs of customers and predict the impact of disruptions on their products and services.

- Putting the needs of customers first
- Universal design: principles and goals improving accessible transport standards
- Benefits of co-design: Understanding customers through human-centred design
- Deliver welcoming and inclusive transport products, services, infrastructure and precincts
- Key strategies required to build a culture of accessibility and inclusion
- Relevant case studies and projects



Policy, Standards and Harmonisation

Transport policies, standards and regulations should serve to enable and accelerate the adoption of technologies and innovations in transport, while setting the goals in liveability, accessibility and sustainability. Lessons can be learnt from early implementation of regulatory reforms across the globe and the best practices can be promoted.

- Standardisation and architecture
- Transport policy and strategy
- Regulation and enforcement, governance
- Funding strategies and business models
- Liability and privacy opportunities and challenges
- Socio-economic impacts of new form of transport
- Driving behavioural changes
- International cooperation, ITS education

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