



INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:

Intelligent Transportation Systems

Name, Title and Affiliation of Chair:

Dr Milan Simic

RMIT University, School Engineering, Melbourne, Australia

Details of Session (including aim and scope):

Intelligent Transportation Systems (ITS) research, and the development of advanced digital transport technology, is giving contribution to the establishment of sustainable, more safe and efficient transport solutions. ITS are based on the state-of-the-art advancements in multidisciplinary domains, like Information Communication Technology, Internet of Things, Cloud computing, Automotive engineering and many other. In addition to comprehensive infrastructure on the road, and on the cloud, systems include Vehicle Ad Hoc Networks and global transitions to electrical and autonomous vehicles. Data fusion, computer vision systems technology and Artificial Intelligence, play the vital role in the traffic management, but also in business and strategic decisions making. Smart cities, rural, regional infrastructure and transportations are part of the changes and will benefit. Finally, the research in the ITS gives contribution to the overall efficiency in the energy use and the reduction of the CO₂ pollution and greenhouse gas emission. ITS promise to deliver sustainable economic and environmental benefits to the industry and the communities.

The list of topics for this session includes but is not limited to:

- ITS and associated subsystems
- Traffic modelling and management
- The role of Internet of Things
- Cloud computing support for ITS
- ITS and smart cities, megacities
- Autonomous vehicles and ITS
- Electrical vehicles in ITS and in the power grid
- Approaches in managing traffic congestions
- Computer vision applications in ITS
- Artificial Intelligence application in ITS
- Future vehicles and transport technology
- New models of vehicle ownership
- Automated, Connected and Electric Vehicles
- Dedicated short-range communications in ITS
- Vehicle Ad Hoc Networks
- The role of social media in ITS

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Website URL of Call for Papers (if any):

Email & Contact Details:

Dr Milan Simic,

milan.simic@rmit.edu.au