



Call for Papers for special session

Cyber-Technology for Connected and Automated Transportation Systems (CCATS)

Scope and Topics

Emerging smart transportation systems are expected to be comprised of automated and connected vehicles as well as a technology-rich transportation infrastructure. While applications of smart transportation systems are numerous and some of them may yet be unknown, their potential to impact the society and quality of life is significant. A major enabling factor for smart transportation systems is the cyber technology and science, including technologies from multiple domains such as sensing, computing (software and hardware), control, wireless communication among others. Despite the fast pace of advances in each of the above technology domains, there are still significant challenges to be addressed from both individual technology and integration perspectives. This special session focuses on cyber and cyber-physical technology and science advances that promise to make future smart transportation systems a reality. The session aims to bring together researchers and engineers from all related areas to disseminate their findings and exchange ideas in a scientific setting. This special session will be held in conjunction with CyberSciTech 2017 (2017 IEEE Cyber Science and Technology Congress, Orlando, USA, November 6-10, 2017).

This special session solicits original, unpublished papers (including work-in-progress papers) on the research and development closely related to the cyber or cyber-physical technology and science that enables smart transportation systems. Topics of interest include, but not limited to:

- Hardware and Software Architecture for Automated and Connected Vehicle Technologies
- Sensing, Communication and Computing Technologies for Automated or Connected Vehicles, or in general Intelligent Transportation Systems
- Smart and Connected Communities, Transportation Applications and Technologies
- The Science of System Integration for Smart Transportation Systems
- Mobility Management in Connected Transportation
- Situational Awareness and Sensing in Automated Vehicles
- Wireless Communication Technologies for Connected or Automated Vehicles
- Data-driven Modeling and Analysis of Transport Systems and Vehicles
- Privacy and Security Aspects of the Cyber Technology in Transportation Systems

Important Dates

Submission Due:	August 15, 2017
Acceptance Notification Due:	August 31, 2017
Paper Registration Due:	September 17, 2017
Camera-ready Manuscript Due:	September 21, 2017

Submission guidelines

Authors are invited to submit their original work that has not previously been submitted or published in any other venue. Final papers must be formatted accordingly (see “IEEE Manuscript Templates”) and submitted via EDAS (<https://edas.info/newPaper.php?c=23118>) under this special session track. A special session paper should be between 4-6 pages.

Organizers

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