

2018 SYMPOSIUM SERIES ON COMPUTATIONAL INTELLIGENCE

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Paper Submission: June 15, 2018 Decision: August 15, 2018 Registration: 15th September 2018



Call for Papers

2018 IEEE Symposium on Computational Intelligence in Vehicles and Transportation Systems (CIVTS)

Within the 2018 IEEE Symposium Series on Computational Intelligence

<http://www.ele.uri.edu/ieee-ssci2017/index.html>

The objective of this symposium is to provide a forum for researchers and practitioners to present advanced research in computational intelligence with a focus on innovative applications to intelligent vehicle and transportation systems. This symposium seeks contribution on the latest developments and emerging research in all aspects of intelligent vehicles and transportation systems. Specific topics for the symposium include, but are not limited to:

- Automated driving and driverless cars
- Big data learning algorithms from connected vehicle data: V2V, V2I, V2P and V2X communications
- Cloud computing and big data in transportation and vehicle systems
- Computational intelligence in advanced transportation information, communication and management systems
- Computational intelligence in air, road, and rail traffic management
- Computer vision and machine learning in collision detection and avoidance
- Deep learning algorithms and applications
- Driver assistance and automation systems
- Driver state detection and monitoring
- Multimodal intelligent transport systems and shared services
- Object recognitions such as pedestrian detection, traffic sign detection and recognition
- Machine learning algorithms for personalized driver and traveler support systems
- Simulation and forecasting models using computational intelligence
- Spatio-temporal traffic pattern recognition
- Trip modeling and driver speed prediction
- Vehicle fault diagnostics and health monitoring
- Vehicle energy management and optimization in hybrid vehicles

Symposium Chairs and Co-Chairs

Yi Lu Murphey at University of Michigan-Dearborn in USA (yilu@umich.edu), Mahmoud Abou-Nasr at Ford Motor Company in USA, MJ Booysen at University of Stellenbosch in South Africa, Justin Dauwels at Nanyang Technological University in Singapore, Robert Karlsen at US Army TARDEC in USA, Dev Kochhar at Ford Motor Company in USA, and Yuanxiang Li at Shanghai Jiao Tong University in China.

Paper submission: <http://ieee-ssci2018.org/submission.html>, Select a **CIVTS** area under the “Main research topic”

Important dates

Paper submission deadline: June 15th, 2018 **Notification to authors: August 15th, 2017**