Call for Papers

Special Session: Intelligent Vehicle Systems

Within the International Joint Conference in Neural Networks
IEEE IJCNN 2015
July 12 to 17, 2015, Killarney, Ireland, http://www.ijcnn.org

This special session seeks to present and highlight the latest developments and emerging research in computational intelligence technologies with applications to developing all aspects of intelligent vehicle systems. Submissions to the Special Session should be centered on theoretical results or innovative applications of computational intelligence to intelligent vehicle systems. Specific topics for the special session include, but are not limited to:

- Collision detection and avoidance
- Computational intelligence in vehicle communications and connectivity
- Driver state detection and monitoring
- Driver assistance and automation systems
- Fault diagnostics and health monitoring
- Human and vehicle interface
- Intelligent battery management
- In-vehicle automation systems
- Learning and adaptive Control
- Learning/adaption in recognition and perception
- Robotic vehicles and driverless cars
- Route guidance systems
- Smart sensors and virtual sensors
- Traffic sign detection and recognition
- Trip modeling and driver speed prediction
- Vehicle energy management and optimization in hybrid vehicles

Organizers:
Yi Lu Murphey at University of Michigan-Dearborn, USA, Mahmoud Abou-Nasr at Ford Motor Company, USA, Ishwar K Sethi at Oakland University, USA, Robert Karlsen at US Army TARDEC, and Chaomin Luo at University of Detroit Mercy, USA.

Important dates:
Paper submission: January 15, 2015
Decision: March 15, 2015
Camera-ready submission: April 15, 2015

Paper submission site: http://www.ijcnn.org/paper-submission
Under the “main research topic”, please select: S. Special Session”– Intelligent Vehicle Systems.