

<http://www.smc2014.org>

Special Session Call for Papers on Intelligent Vehicular Systems and Control

Special Session organizers

Dr. Jianbo Lu
Ford Motor Co.
2101 Village Rd.
Dearborn, MI
USA

Email:
jlu10@ford.com

Phone:
(313)3239736

Prof. Tim Gordon
School of Eng.
Univ. of Lincoln
Lincolnshire, LN6 7TS
U.K.

Email:
tgordon@lincoln.ac.uk

Phone:
01522 83 7911

Prof. Laurent Itti
Dept. of Computer
Science
Univ. of Southern
Los Angeles, CA
USA

Email:
itti@usc.edu

Phone:
(212)7403527

Introduction/Call for Papers

Intelligent Vehicular Systems and control (IVSC) addresses methodologies in the discipline of control systems and computational intelligence in vehicle applications. Recently, IVSC-related topics are gathering increased research attention, due to the increased complexity of on-board vehicle controls, the needs of future mobility functions - including autonomous driving - plus the needs for safer and greener driving. Furthermore, modern vehicles are becoming open to the interaction with multiple information-rich cyber-physical systems. The driving goal for convenience, conformity, safety and fuel economy can only be achieved if the integration among these sub-systems is properly executed. We would like to organize a Special Session related to those topics. This special session intends to bring together researchers from both academia and industry, to exchange research ideas on IVSC. Prospective authors are invited to submit original papers to the Special Session.

Indicative Topics/Areas

More specific topics include but not limited to the following:
(1) driver model; (2) driver monitoring, decoding of driver state and intentions; (3) driver assistance and active safety systems; (4) cooperative vehicle controls; (5) vehicle system control; (6) vehicle ride, handling, and stability control; (7) vehicle path planning and trajectory control; (8) vehicle control architecture and embedded software; (9) vehicle parameter identification; (10) vehicle system integrations; (11) vehicle personalization and adaptation; (12) green technology and fuel economy; (13) semi-autonomous system (driver-in-the loop vehicle control systems); (14) autonomous systems (driverless vehicle control system); (15) perception systems and sensor fusion; (16) fuel economy-based speed and motion management; (17) electrified vehicle systems.

Important Dates

April 7, 2014: Deadline for submission of full-length papers to special sessions.

May 25, 2014: Acceptance/Rejection Notification.

July 9, 2014: Final camera-ready papers due in electronic form.

Submission

Please contact the Special Session organizers for arrangement of submission in the first instance. All submissions may well need to be uploaded to SMC14 main conference online submission system. All submitted papers of Special Sessions have to undergo the same review process (three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2014 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.

Organized by IEEE SMC TC on [Intelligent Vehicular Systems and Control](#).