

Special Session Proposal

Title: Information System and Communication Protocol for Vehicular Technology

Scope and Description:

In the last decade, major developments on information systems for vehicular technology have been witnessed. These new developments have led to an enormous increase in competitiveness among companies and new technology is needed to capitalize on the information systems. Hardware configuration as well as algorithm development for a certain communication topology such as the synchronous Ethernet communication become a vital technology for vehicles equipped with various electronic equipment including cameras and different sensors. This research trend includes the development of real time control and communication for over 100Mbps traffic data with flexible configuration of network topologies among different manufactures. This research also requires the development of intelligent safety information system for vehicle and drivers. The aim of this special session is to bring together individuals from academia, industry and government to discuss and exchange ideas in the fields of mobile, wireless and vehicular technology as well as the applications and services associated with such technology. Features include regular research track and industrial track. In industrial track, up-to-date development reports and work-in-progress papers from industry are invited.

Topics of Interests, but not limited

- PHY/MAC layer protocol for vehicle communication
- Integrated gateway based on 1 Gbps Synchronous Ethernet
- Intelligent safety system with Around View Monitoring
- Intelligent pedestrian identification and classification system
- Error detection and correction technology
- IV/OV network system
- Multi-channel imaging system communication and pedestrian safety system
- Multi-sensor data integration

Paper Submission and Publication:

- Regular track : full paper with KSE 2015 regular paper submission restriction, up to 6 pages(Published in KSE 2015 conference proceedings and IEEE conference website)
- Industry track: short paper, project report, demos, and work-in-progress papers, up to 4 pages (Published in KSE 2015 conference proceedings)

The submissions will be peer-reviewed for originality and scientific quality. The proceedings will be published by IEEE and be available at the conference. Papers in both tracks should follow the LaTeX series format as described at IEEE-cs's website and should not exceed 6 pages (http://www.ieee.org/conferences_events/conferences/publishing/templates.html).

Important Dates:

- o Submission Due: May 21, 2015
- o Author Notification: July 1, 2015

- Final Manuscript Due: July 15, 2015
- Conference Dates: October 08- 10, 2015

Special Session Co-Chairs:

- Dong-Chul Park: Myongji University, Korea
- Soo-Young Min : Korea Electronics Technology Institute, Korea

Program Committee:

- Yong-Mu Jeong : Korea Electronics Technology Institute, Korea
- Sang-Sun Lee : Hanyang University, Korea
- Jung Guk Kim, Hankuk Univesity of Foreign Studies, Korea
- Hee-Seok Moon, Korea Automotive Technology Institute, Korea
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- Soo-Young Ha, Ajin Industries Co., Korea
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- Jae Min Ban, Movon Co. Ltd., Korea
- Nguyen Minh Son : University of Information Technology, VNU-HCM, Vietnam
- Tran Nguyen Chung : Iritech Inc., Vietnam
- Hoai Duc Nguyen, Da Nang Center of Integrated Circuit, Vietnam

Contact

Prof. Dong-Chul Park , Myongji University, Korea (parkd@mju.ac.kr, parkd@dreamwiz.com)