

IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS INDIN'16

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Special Session on

“Automotive Communications”

Organized by

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Call for Papers

Theme:

The focus of automotive industry is moving from cars that provide various levels of driver assist functions towards fully automated driving. New functionalities that are expected in automated driving impose new demand on the in-vehicle communication infrastructure. These requirements include flexibility, connectivity to cloud, safety, and security apart from high bandwidth. Not only these requirements are sometimes conflicting, but they must be realized at low-costs as well. In this arena, automotive Ethernet is going to play a major role, thus representing a significant paradigm shift in automotive networking. CAN FD is an emerging choice in certain sub-systems in low cost solutions. This Special Session seeks papers describing original research or application aspects or case studies in this area.

Topics of interest include, but are not limited to:

- Automotive Ethernet
- Audio Video Bridging
- Performance assessment of automotive network technologies
- Timing analysis of in-car communication protocols
- Secure automotive communications
- Fault-tolerance and reliability issues in automotive communications
- Techniques for bandwidth optimization or jitter reduction for in-car networks
- Intra and inter-vehicular communications