



IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS ISIE'18

12-15 JUNE 2018, CAIRNS, AUSTRALIA

Special Session on

Network-Based Control, Filtering and Their Applications

Organized by

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Call for Papers

Because of attractive advantages, network-based control systems have attracted increasing attention. It is becoming more important how to apply such technologies to modern industrial/control systems with a large number of distributed sensors and actuators. Consequently, network-based control and filtering have been paid much attention in control community for industrial automation and have found applications in a broad range of areas, such as mobile sensor networks, motion control of aerocrafts, remote surgery, network-based leader-following consensus, automated highway system and unmanned marine vehicles. This special session is to investigate the control and filtering for networked systems in industrial electronics areas.

Topics of interest include, but are not limited to:

Sampled-data-based event-triggered control and filtering

Cooperative control of MASs

Leaderless and leader-following coordination of MASs

Quasi-synchronization in leader-follower heterogeneous dynamic networks

Network resource scheduling and allocation

Communication protocol

Network-based tracking control

Fault detection in network-based control systems

Wireless sensor networks for control and filtering

Industrial communication and its applications

All the instructions for paper submission are included in the conference website: <http://www.ieee-isie2018.org>