



Mathematical Problems in Engineering

Special Issue on

Sensor/Actuator Networks and Networked Control Systems 2016

CALL FOR PAPERS

This special issue aims at disseminating the latest interdisciplinary research on the theory and application of sensor/actuator networks (SAN) and networked control systems (NCS). The increasing use of heterogeneous communication media as part of the control loop challenges conventional assumptions of perfect communication and instantaneous observation and has given rise to a number of complementary efforts to devise analysis and design tools for SAN and NCS. The special issue focuses on presenting, in a coherent context, research that attempts to address control and communication issues simultaneously. In particular, authors are encouraged to submit cross-disciplinary contributions, emphasizing the importance of control, communication, networking, and sensor aspects of SAN and NCS.

Submitted papers should present original work and should not have been previously published nor currently under consideration for publication elsewhere.

Potential topics include, but are not limited to:

- ▶ Control and stability (e.g., control of networks, control over networks, hybrid and distributed control, and cooperative control, such as consensus, formation, flocking, coverage, and localization)
- ▶ Networks (e.g., wireless and sensor networks, scheduling, fault tolerance, and security)
- ▶ Architecture (e.g., integrated communication and control, multilayering, cross-layering, and QoS)
- ▶ Analysis (e.g., formal modeling, verification, evaluation, validation, and simulation)
- ▶ Applications (e.g., robotics and multiagent systems, embedded systems, factory and building automation, energy and environment, and transportation)

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