

# CALL FOR PAPERS



## Special Session on Networked Control and Its Applications

IECON 2018 - The 44<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society  
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### TOPIC OF THE SPECIAL SESSION

Because of attractive advantages such as low cost in installation and maintenance, flexibility in communication architectures, and high reliability, 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.

#### Topics of the Session

- Sampled-data-based event-triggered control and filtering
- Consensus for distributed multiagent systems (MASs)
- Cooperative control of MASs
- Leaderless and leader-following coordination of MASs
- Network resource scheduling and allocation
- Communication protocol
- Network-based tracking control
- Fault-tolerance in network-based control systems
- Industrial communication and its applications

#### IEEE IES Technical Committee Sponsoring the Special Session :

- IES TC on Network-Based Control Systems and Applications

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#### Author's schedule:

- **Deadline for submission of special session papers**  
Date 1 (use from <http://www.iecon2018.org>)
- **Notification of acceptance**  
Date 2 (use from <http://www.iecon2018.org>)
- **Deadline for submission of final manuscripts**  
Date 3 (use from <http://www.iecon2018.org>)

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