

CALL FOR PAPERS

Special Session on Control and Filtering For Distributed Networked Systems

to be held in the frame of
IECON 2013 - The 39th Annual Conference of the IEEE Industrial Electronics Society
10th - 13th of November 2013, Austria Center, Vienna, Austria



TOPIC OF THE SPECIAL SESSION

Networking technologies are widely used for data communication and information change. It is becoming more important how to apply such technologies to modern industrial/control systems with a large number of distributed sensors and actuators. The advanced networking technologies have provided a low-cost solution for effective distributed information processing and controlling, resulting in flexible architecture and reduction of installation and maintenance costs. Consequently, networked control and filtering are the current trend for industrial automation and have applications in a broad range of areas, such as mobile sensor networks, remote surgery, haptics collaboration over the Internet, and automated highway system and unmanned aerial vehicles. This special session is to investigate the control and filtering for distributed networked systems in industrial electronics areas. Topics of interest are included but not limited to:

- Distributed Event-triggered filtering
- Distributed Event-triggered control
- Network resource scheduling and control

SPECIAL SESSION ORGANISATION

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The organizers look forward to welcoming you to Vienna, Austria from 10th to 13th November 2013.

Important Dates

Regular Paper submission:	April 01, 2013
Notification of acceptance:	June 15, 2013
Final submission:	August 01, 2013



- Network bandwidth and control
- Communication protocol and control
- Network dynamics and control and filtering
- Distributed Network-based leader-following consensus
- Network-based tracking control
- Distributed sensing and filtering
- Fault-tolerance in network-based control systems
- Distributed wireless networks for control and filtering
- Sampled-data control and filtering
- Industrial communication and control systems

SUBMISSION OF PAPERS

The working language of the conference is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the conference web page. Accepted and presented papers will be published in an IEEE Proceedings volume and will be sent to IEEE Xplore. In addition, selected authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics or in the IEEE Transactions on Industrial Informatics.

THE CONFERENCE

IECON 2013 is the 39th Annual Conference of the IEEE Industrial Electronics Society, focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship.

Papers with new research results are encouraged for submission. IECON 2013

will be held concurrently with the 7th IEEE International Conference on E-Learning in Industrial Electronics (ICE-LIE 2013). Participation in any of these events just requires a single conference registration fee. The world's industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, special sessions and social activities, and furthermore, enjoy beautiful Vienna.