

SMC 2016

IEEE INTERNATIONAL CONFERENCE ON
SYSTEMS, MAN, AND CYBERNETICS
OCTOBER 9-12



Special Session Call for Papers SMC2016 Special Session on Networked Systems and Networked Control

Organizers:

Lixian Zhang, Professor, PhD
Vice Director of Research Institute of Intelligent Control & Systems
School of Astronautics, Harbin Institute of Technology
P.O.Box 3015, Yikuang Street #2,
Nangang District, Harbin, China, 150080
Email: lixianzhang@hit.edu.cn ; lixianzhanghit@gmail.com
Homepage: <http://homepage.hit.edu.cn/pages/lixianzhang/5>

Huijun Gao, Professor, PhD, IEEE Fellow
Co-Editor-In-Chief, IEEE Trans. Industrial Electronics
Director, Research Institute of Intelligent Control and Systems
Dean, School of Science
Harbin Institute of Technology
P.O.Box 3015, Yikuang Street 2#, Nangang District
Harbin, Heilongjiang Province, 150001, China
Email: hjgao@hit.edu.cn huijungao@gmail.com
Homepage: <http://homepage.hit.edu.cn/pages/gaohuijun/2>

Okyay Kaynak, Professor, PhD, IEEE Fellow
Editor-In-Chief, IEEE/ASME Trans. Mechatronics
National One Thousand Foreign Expert of China
Harbin Institute of Technology
Harbin, Heilongjiang Province, 150001, China
Email: oktay.kaynak@boun.edu.tr
Homepage: <http://mecha.ee.boun.edu.tr/kaynak.html>

In the era of Cyber-Physical Systems, networked systems and networked control have been emerging in more and more industrial applications including various industrial processes, telerobotics, smart grids, intelligent transportation systems, and even the medical, military and aerospace applications, etc.

The objective of this special session is to present the advances in the field of networked systems and networked control. Both theoretical and application-oriented papers are sought for, addressing the issues of Cyber-physical systems, network-based control, sensing, multi-agent coordination systems, etc.

Indicative Topics/Areas

- Modeling of network communication channels
- Multi-objective control with limited network communication capacity
- Network-based nonlinear control systems
- Remote sensing with network media
- Fault detection and fault tolerant control in network environment
- Distributed sensor networks
- Cooperation control and networked multi-agent systems
- Network congestion control
- Simulation tools for networked control systems
- Industrial applications: industrial processes, transportation, telerobotics, smart grids, etc.

The special session is submitted to

Section:[C]

C: Cybernetics

Important Dates

April 15, 2016 Extended deadline for submission of regular, special, short, demo, and poster sessions

May 25, 2016 Acceptance notification for all categories of papers and posters

July 9, 2016 Final camera-ready papers due for regular, special and demo paper sessions

Manuscripts for a Special Session should NOT be submitted in duplication to any other regular or special sessions and should be submitted to SMC2016 main conference online submission system on SMC2016 conference website.