

Special Issue on Intelligent Measurement and Control Techniques in Dynamic Uncertain Environments

Guest Editors

Dr. Chunlin Chen

Department of Control & System Engineering, School of Management and Engineering,
Nanjing University,
Nanjing, China

Dr. Jin Zhu

Department of Mechanical Engineering, Graduate school of Engineering,
Hanyang University,
Seoul, South Korea

Introduction

It is very important for measuring and control systems to possess good performance in a dynamic uncertain environment, where the uncertainties may include vagueness, imprecision, incompleteness of information, partiality of truth and partiality of possibility. Coping with the uncertainties appropriately has always been a long standing goal of measurement, intelligent control, artificial intelligence, industrial application and social science. Both in measurement and control, there are two important components that unavoidably bear uncertainties: sensory systems and information processing methods. Such problems require a rethinking of the usual measurement and control methods. Recently, more and more computational intelligence approaches and modeling methods have been adopted to deal with these uncertainties. This special issue of The Mediterranean Journal of Measurement and Control (<http://www.medjmc.com>) will be dedicated to this challenging area, and follows

Topics of interest include, but are not limited to:

- Fuzzy inference for the measurement and control with vague uncertainty
- Grey theory for the measurement and control with incomplete information
- Probabilistic methods for the measurement and control in a stochastic environment
- Numerical-symbolic representations for measurement and control
- Integrating learning with measurement and control architectures
- Semi-Markovian and Markovian jumping models for the measurement and control with deep hierarchies or levels
- Other integrated computational intelligence methods for intelligent measurement and control, such as neural network, evolutionary computation, reinforcement learning, etc.

Information for Authors:

All papers are subject to strict peer review process before publication. Prospective authors are invited to submit a 6 to 12 pages paper, following the instructions provided in the journal web site at:

http://www.medjmc.com/authors_info.html

Deadline for submission of manuscripts is **15 Mar 2009**. Manuscripts should be submitted electronically to:

Dr. Chunlin Chen at chunlin.chen@ieee.org or clchen@nju.edu.cn
or Dr. Jin Zhu at jinzhu@hanyang.ac.kr

More information about The Mediterranean Journal of Measurement and Control and instructions for authors can be obtained at <http://www.medjmc.com>

IMPORTANT DATES:

Manuscript Due: 15 Mar 2009

Acceptance Notification: 1 May 2009

Final Manuscript Due: 30 May 2009

Publications Date: 30 July 2009