

Call for Papers:



IEEE Transactions on Systems, Man, and Cybernetics

Part A: Systems and Humans

Special Issue on “*Advances in Heterogeneous and Complex System Integration*”

The advances in distributed computing and networks make possible linking people, complex and isolated systems, computational resources, and heterogeneous information efficiently and cost-effectively. Through integration the degree of business (system) process automation and productivity can be substantially increased as we have witnessed in the last decade or so. System integration transforms science and engineering research and expectations on how people live, learn, and work. Due to the inherent heterogeneity and complexity of systems (e.g., hardware, software, networks, engineering process, and human beings), system integration creates many new challenges, which confront researchers and professionals. This special issue aims at presenting the latest research on **Emerging Technologies in Heterogeneous and Complex Systems Integration** to provide researchers and professionals with a better understanding of the on-going shift towards increasing connections and interdependencies among heterogeneous systems and human beings. Topic areas of interest include (but are not limited to):

- System Integration: Formulation, Modeling, and Analysis
- Reconfigurable Components and Systems for Ease of Integration
- Enterprise Information Systems: Integration and Optimization
- Human-System Interaction and Decision Making
- Architectural, Security, and Communication Issues in System Integration
- Networked Computing Devices for System Integration
- Reliability, Adaptability, and Expandability of Integrated Systems
- Performance Metrics for Integrated Heterogeneous and Complex Systems
- Applications of Integrated Heterogeneous and Complex Systems

In preparing manuscripts, authors should follow the *IEEE Transactions on SMC*'s 'instruction for authors', which can be found in abridged form at the back of each issue and is available at the following web site: <http://www.ieee-smc.org/webpages/publications/index.html>.

Submission:

All the manuscripts should be submitted through **IEEE Transactions on SMC Part A: Systems and Humans** manuscript central web site (<http://smca-ieee.manuscriptcentral.com>). Authors should put in the "Author Comments Section" to Editor-in-Chief the following sentence: "This paper is for the Special Issue on 'Advances in Heterogeneous and Complex System Integration' being edited by Robin Qiu and MengChu Zhou."

Important Dates:

- December 1, 2004: Full manuscripts submitted to Transaction's manuscript center with the above note to EIC. They can be submitted starting on October 15, 2004.
- March 1, 2005: First round review completed.
- April 1, 2005: The revised manuscripts due to Transaction's manuscript center.
- June 1, 2005: Final notification.
- June 15, 2005: Final paper due to EIC.
- November 2005: Publication

Guest Editors:

Prof. Robin G. Qiu, Ph.D.
Dept. of Information Science
The Pennsylvania State University
Malvern, PA 19355, USA
Email: robinqiu@psu.edu

Prof. MengChu Zhou, Ph.D.
Dept. of Electrical & Computer Eng.
New Jersey Institute of Technology
Newark, NJ 07102, USA
Email: zhou@njit.edu