OBJECTIVES

The 3rd IFAC International Conference on Intelligent Control and Automation Science (ICONS 2013) will be held in Chengdu, China, 2-4 September 2013. ICONS serves as a platform for scientists, researchers, and practitioners to discuss their forefront research results and findings, to shape their future directions and development, and to exchange their knowledge and perspectives in the field of intelligent control, automation science, engineering, and integration into industry and society. It constitutes the primary forum for cross-industry, multidisciplinary research, and provides an opportunity to have a unique and rich cultural experience with excellent technical and social programs. The conference welcomes original, peer reviewed papers submissions in all areas related to intelligent areas, control systems, and automation science, especially innovative ideas, novel concepts, new discoveries and distinguished applications.

TARGET AREAS

We look forward to receiving your submission in the areas including, but not limited to the following:

- Computational intelligence methods in modeling, systems identification and control; stability, sensitivity and robustness issues
- Search methods and decision-making: neural networks, evolutionary computing, fuzzy techniques (single or multiple objective)
- Swarm Intelligence (ant colony, particle swarm, differential evolution, cultural algorithms)
- Neurodynamic optimization and adaptive dynamic programming
- Biologically plausible neural networks, computational neuroscience, neurodynamics and regulatory networks
- Brain computer interface and cognitive architectures
- Neuroinformatics and bioinformatics
- Hybrids of computational intelligence systems (neuro-fuzzy systems, neuro-genetic programming, etc.
- Intelligent systems and instrumentation: smart systems, sensors, actuators and distributed systems
- Data fusion and data mining; fault management and knowledge processing and representation; use of internet technology; intelligent agents
- Real-time aspects of intelligent control; training and adaptation algorithms, constructive algorithms, structures for computational intelligence; design methodologies
- Architectures for real-time intelligent-control (special processors, parallel processing, FPGAs, etc.); reconfigurable control
- Applications to include transport, medical and biomedical, biology, aerospace, automation, biotechnology, mechatronics, automation,
- Manufacturing, process control, power systems, agriculture, environmental systems, robotics and autonomous systems,
- Emerging areas

PAPER SUBMISSION AND INSTRUCTIONS FOR AUTHORS

Prospective authors are invited to submit their full papers in six (6) page, A4 paper size, and PDF file format, complying with the IFAC style rules. Detailed and current information on paper style as well as templates for MS Word and Latex could be found at the IFAC website: www.ifac-control.org/events/information-for-ifac-authors.

The submission site is open starting 1 Oct 2012 https://ifac.papercept.net/conferences/scripts/start.pl

Conference proceedings will be published by IFAC in electronic form on the IFAC-PapersOnLine website.

Copyright Conditions: http://www.ifac-control.org/publications/copyright-conditions

IMPORTANT DATES (Tentative)

- Invited Session Proposal Submission: 28 February 2013
- Conference / Invited Paper Submission: 15 March 2013
- Notification of Paper Acceptance: 15 May 2013
- Final Manuscript Submission: 01 June 2013
- Registration and Reception: 01 September 2013

VENUE

The beautiful modern cultural city of Chengdu is proud to be the host for the ICONS 2013. Chengdu is not only a venerated settlement but also a thriving modern cultural city. As one of China's earliest modernized regions, Chengdu is the center of commerce, trade and finance in West China, a comprehensive industrial base of advanced technology and a modernized international metropolitan opening in all directions.

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