CALL FOR PAPERS – ICCI 2005

The Fourth IEEE International Conference on Cognitive Informatics

http://www.enel.ucalgary.ca/ICCI2005

August 8-10, 2005, University of California, Irvine, California, USA

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THEME

Natural Intelligence and Autonomous Computing

Cognitive Informatics (CI) is a cutting-edge and multidisciplinary research area that tackles the fundamental problems shared by modern informatics, computation, software engineering, AI, cybernetics, cognitive science, neuropsychology, medical science, philosophy, linguistics, and life sciences. CI is the transdisciplinary study of cognitive and information sciences, which investigates into the internal information processing mechanisms and processes of the natural intelligence – human brains and minds – and their engineering applications in computing and ICT industries.

The development and the cross fertilization between the aforementioned science and engineering disciplines have led to a whole range of extremely interesting new research areas known as CI. Following the first three successful conferences on Cognitive Informatics (ICCI'02, ICCI'03 and ICCI'04), the Fourth IEEE International Conference on Cognitive Informatics (ICCI'05) has its theme on Natural Intelligence and Autonomous Computing. The objectives of ICCI'05 are to draw attention of researchers, practitioners and graduate students to the investigation of cognitive mechanisms and processes of human information processing, and to stimulate the international effort on cognitive informatics research and engineering applications.

SCOPE

Original papers are invited from multidisciplinary perspectives on subject areas including, but not limited to, the following:

Cognitive Informatics
Informatics
Cognitive Science & Neuropsychology

Autonomous computing
Nature of software
Natural intelligence

Intellectual foundations of computing
Knowledge engineering
Philosophy of mind

Information models of the brain
Bioinformatics
Brain organization

Informatics foundations of software engineering
Quantum information processing
Cognitive mechanism and process

Descriptive mathematics
Artificial intelligence
Memory

Internal information processing mechanisms
Fuzzy logic
Learning

Software agent systems
Machine learning
Thinking

Ergonomics
Neural networks
Reasoning

Informatics laws of software
Pattern recognition
Problem solving

Knowledge representation
Agent technologies
Cognitive linguistics

Neural computation
Web-based information systems
Neuropsychology

PAPER SUBMISSION

Papers submitted to ICCI'05 must not have been previously published and must not be currently under consideration for publication elsewhere. The manuscript should be in English, and should not exceed 10 pages in IEEE double-column format, including figures and tables. The font size should be at least 10 point. All paper submissions will be handled electronically through our online web-based submission system at the conference website. The submission of your paper should be in either PDF or PS file format. Make sure that you indicate the contact author’s information (email and postal addresses, phone and fax numbers) in your submission. It is required that all accepted papers must be presented at ICCI’05 conference. The proceedings of ICCI’05 will be published by IEEE CS Press. Selected best papers of ICCI’05 will be published in a special issue of either IEEE-TSMCC or IJCI (TBA).

WORKSHOPS AND SPECIAL SESSIONS

ICCI’05 welcomes proposals for workshops and special sessions. Proposals need to be sent to the Conference Co-chairs by February 14, 2005.

IMPORTANT DATES

Paper submission deadline: February 7, 2005
Workshop proposals deadline: February 14, 2005
Notification of acceptance: April 1, 2005
Camera-ready copy due: May 2, 2005