



BICC 2006

IFIP
World Computer Congress
Santiago de Chile



August 20-25, 2006

IFIP Conference on Biologically Inspired Cooperative Computing

IFIP Conference on Biologically
Inspired Cooperative Computing
BICC 2006

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Submission to:

<http://www.wcc-2006.org/bicc2006>

IMPORTANT DATES

Deadline: January 15, 2006

Notification

acceptance/rejection: March 15, 2006

Camera Ready deadline: April 7, 2006

IFIP BICC 2006: August 20 - 25, 2006

Scope and Topics

A new paradigm in computing is to take many simple autonomous objects or agents and let them jointly perform a complex task, without having the need for centralized control. In this paradigm, these simple objects interact locally with their environment using simple rules. An important inspiration for this model is nature itself, where many such systems can be found. Applications include optimization algorithms, communications networks, scheduling and decision making, supply-chain management, and robotics.

There are many disciplines involved in making such systems work: from artificial intelligence to energy aware systems. Often these disciplines have their own field of focus, have their own conferences, or only deal with specialized subproblems (e.g. swarm intelligence, biologically inspired computation, sensor networks).

The IFIP Conference on Biologically Inspired Cooperative Computing attempts to bring the various fields together and explore boundaries. This conference will be the dignified forum to celebrate the 30th anniversary of TC10, IFIP's Technical Committee on Computer Systems Technology.

Streams

The conference topics will be formed around the following four streams (representing WG10.1, 10.3, 10.4, and 10.5):

- *Modelling and Reasoning about Collaborative Self-Organizing Systems.*
Stream chair: Charles RATTRAY (UK), c.rattray@cs.stir.ac.uk
- *Collaborative Sensing and Processing Systems.*
Stream chair: Kemal EBCIOGLU (USA), kemal@us.ibm.com
- *Dependability of Collaborative Self-Organizing Systems.*
Stream chair: Jean ARLAT (France), jean.arlat@laas.fr
- *Design and Technology of Collaborative Self-Organizing Systems.*
Stream chair: Tiziana MARGARIA (Germany), margaria@informatik.uni-goettingen.de

Paper submission: All papers should be submitted electronically on the web site of the conference at www.wcc-2006.org/bicc2006 in Portable Document Format (PDF). The name and affiliation of all authors should be included on the paper, and the contact information for the lead author should be added in a cover page. Papers presenting original research in conference topics are being sought. Maximum sizes are 10 pages for full papers, 4 papers for short papers, work-in-progress papers and poster papers, and should be sent before **January 15, 2006**. Proceedings of IFIP BICC 2006 will be published by *Springer Science and Business Media* (SSBM). More information can be found in <http://www.wcc-2006.org>

Acceptance will be based on quality, relevance and originality and the practical value of the work. Authors will be notified of acceptance or rejection via e-mail by **March 15, 2006**. Full versions of accepted papers (camera-ready) in any category must be written in English, and will be due by **April 7, 2006**.

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