



Brisbane Convention & Exhibition  
Centre  
20-23 September 2010, Brisbane, Australia

[www.wcc2010.org](http://www.wcc2010.org)

## First Announcement and Call for Papers

### Conference Chairs

Peter Lindsay (Australia)

[p.lindsay@itee.uq.edu.au](mailto:p.lindsay@itee.uq.edu.au)

Franz J. Rammig (Germany)

[franz@uni-paderborn.de](mailto:franz@uni-paderborn.de)

### Programme Committee Chairs

Mike Hinchey, Lero, Ireland

[mike.hinchey@lero.ie](mailto:mike.hinchey@lero.ie)

Jon Timmis, University of York, UK

[jtimmis@cs.york.ac.uk](mailto:jtimmis@cs.york.ac.uk)

### Programme Committee Members (tbc)

Hussein Abbas (Australia)

Sven A. Brueckner (USA)

Yuan-Shun Dai (USA)

Marco Dorigo (Belgium)

Luca Maria Gambardella (Switzerland)

Jadwiga Indulska (Australia)

Thomas Jansen (Ireland)

Peter A. Lindsay (Australia)

Tiziana Margaria (Germany)

Eliane Martins (Brazil)

Roy A Maxion (USA)

Christian Müller-Schloer (Germany)

Takashi Nanya (Japan)

Bernhard Nebel (Germany)

Giuseppe Nicosia (Italy)

Anastasia Pagnoni (Italy)

Jochen Pfalzgraf (Austria)

Daniel Polani (UK)

Ricardo Reis (Brazil)

Richard D. Schlichting (USA)

Hartmut Schmeck (Germany)

Bernhard Sendhoff (Germany)

Giovanna Di Marzo Serugendo (UK)

Joaquin Sitte (Australia)

Roy Sterritt (Northern Ireland)

Janet Wiles (Australia)

### Conference 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).

Topics of interest include, but are not limited to:

- *Modeling and Reasoning about Collaborative Self-Organizing Systems*
- *Collaborative Sensing and Processing Systems*
- *Dependability of Collaborative Self-Organizing Systems*
- *Design and Technology of Collaborative Self-Organizing Systems*

### Instructions for paper submission

Papers must not substantially overlap with papers that have been published or are simultaneously submitted to a journal or another conference with proceedings. Papers must be written in English; they should be at most 12 pages in total, including bibliography and well-marked appendices. Papers should be intelligible without appendices, if any.

Accepted papers will be presented at the conference and published in the IFIP AICT (Advances in Information and Communication Technology) Series by Springer. Submitted and accepted papers must follow the publisher's guidelines for the IFIP AICT Series ([www.springer.com/series/6102](http://www.springer.com/series/6102), Author templates, Manuscript preparation in Word). At least one author of each accepted paper must register to the conference and present the paper.

All papers must be submitted in electronic form through the web via [www.wcc2010.org](http://www.wcc2010.org) by the deadline indicated below. Papers submitted after this deadline will be discarded without review.

### Important dates

Submission of papers: **January 31, 2010**

Notification to authors: **April 20, 2010**

Camera-ready copies: **May 15, 2010**