

2007 IEEE Symposium Series on Computational Intelligence (SSCI 2007)

Registration to CISched 2007 allows access to:

- First IEEE Symposium on Computational Intelligence in Image and Signal Processing
- First IEEE Symposium on Computational Intelligence in Multicriteria Decision Making
- First IEEE Symposium on Computational Intelligence in Data Mining
- First IEEE Symposium on Computational Intelligence in Scheduling
- 2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)
- 2007 IEEE Swarm Intelligence Symposium (SIS)
- First IEEE Symposium on Artificial Life
- and more (there are 12 symposia)

Sponsored by:



2007 IEEE Symposium on Computational Intelligence and Scheduling (CISched 2007)

<http://www.cs.nott.ac.uk/~rxq/cis/CIS2007.htm>

SSCI 2007

General Chair: David Fogel, Natural Selection, Inc., USA
Honorary Chair: Evangelia Micheli-Tzankou, Rutgers University, USA
Finance Chair: Mohamed El-Sharkawi, University of Washington, USA

CISched 2007

Co-Chairs: Edmund Burke, Graham Kendall, Stephen Smith, Kay Chen Tan
Publicity/Web Chair: Rong Qu, Proceedings Chair: Dipti Srinivasan

Important Dates

Special Session Proposals: July 30, 2006
Paper Submission: October 31, 2006
Notification of Acceptance: November 30, 2006
Camera-Ready Submission: January 15, 2007

Call for Contributed Papers

This symposium aims to bring together leading researchers and practitioners in computational intelligence and scheduling. Scheduling problems are often not amenable to being tackled by exact approaches due to the huge search spaces that have to be explored. Therefore we often resort to techniques which fall under the term of *Computational Intelligence*. These can include Evolutionary Computation, Neural Networks, Fuzzy Logic etc. This symposium aims to explore recent advances in this area. Topics include, but are not limited to, the following:

- Computational Intelligence in:
 - Course and Examination Timetabling
 - Commercial Scheduling packages
 - Employee Scheduling
 - Production Scheduling
 - Sports Scheduling
 - Transport Scheduling
- Complexity Issues
- Comparison of Techniques (e.g. compare Neural Networks with Fuzzy Logic or comparison of a meta-heuristic approach with a CI approach)
- Interactive Scheduling using Computational Intelligence
- Experiences of CI within Scheduling
- Case Studies
- Theoretical or empirical analysis of evolutionary algorithms and representations

Call for Special Sessions

CISched 2007 also solicits proposals for special sessions within the scope of the symposium. Papers submitted to special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organising a special session are invited to submit a proposal to Graham Kendall (gxk@cs.nott.ac.uk). The proposal should include the session title, a brief description of the scope, a list of potential authors that might submit papers to the special session, and brief biographies of the special session organisers.

Paper Submission

Prospective authors are invited to submit papers of no more than eight (8) pages including results, figures and references. Authors should submit their papers as PDF through the online submission system, which will be available at the website <http://www.ieee-ssci.org>. The title page of the paper should include author name(s), affiliation, mailing address, telephone, fax, and e-mail address. At least one author is expected to register at the symposium and present their paper.

Inquiries

For general inquiries of SSCI 2007, contact General Chair David Fogel at dfogel@natural-selection.com. For CISched 2007 enquires, please contact Graham Kendall at gxk@cs.nott.ac.uk.



2007 IEEE Symposium Series on Computational Intelligence (SSCI 2007)

Includes:

First IEEE Symposium on Computational Intelligence in Multicriteria Decision Making (MCDM 2007)

- First IEEE Symposium on Computational Intelligence in Image and Signal Processing
- 2007 IEEE Symposium on Computational Intelligence and Games (CIG)
- First IEEE Symposium on Computational Intelligence in Data Mining
- First IEEE Symposium on Computational Intelligence in Scheduling
- 2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)
- 2007 IEEE Swarm Intelligence Symposium (SIS)
- First IEEE Symposium on Artificial Life

First IEEE Symposium on Computational Intelligence in Multicriteria Decision Making (MCDM 2007)

SSCI 2007

General Chair: David Fogel, Natural Selection, Inc., USA
Honorary Chair: Evangelia Micheli-Tzanakou, Rutgers University, USA
Finance Chair: Mohamed El-Sharkawi, University of Washington, USA

MCDM 2007

Co-Chairs: Piero Bonissone, General Electric Global Research, USA
Carlos Coello Coello, CINEVESTAV-IPN, Mexico
Yaochu Jin, Honda Research Institute Europe, Germany
Publicity Chair: Gary Yen, Oklahoma State University, USA

Important Due Dates

Special Session Proposals: October 1, 2006
Paper Submission: November 1, 2006
Notification of Acceptance: December 1, 2006
Camera-Ready Submission: January 15, 2007

Call for Contributed Papers

The aim of the annual IEEE Symposium on Computational Intelligence in Multicriteria Decision Making (MCDM 2007) is to bring together engineers, scientists and students from around the world to discuss the latest advances in the field of computational intelligence applied to issues in multicriteria decision making. Topics covered include applications of computational intelligence technologies, such as neural networks, fuzzy systems, evolutionary computation, and other emerging techniques in the following or similar areas:

- **Multiobjective Search/Optimization (MOO):**
 - Multiobjective Evolutionary Algorithms
 - Meta-Heuristics (Scatter and Tabu Search)
 - Particle Swarm Optimization
 - Ant Colonies, Bacteria Optimization, Other Search Methods
- **Multiobjective Machine Learning (ML):**
 - Accuracy-interpretability, Stability-plasticity dilemma
 - Pareto-based ensemble generation
- **Decision Making (DM) Techniques:**
 - Preference Elicitation and Representation
 - Aggregation/Tradeoff Operators & Algorithms
 - Fuzzy Logic based DM techniques
 - Bayesian and Other DM techniques
- **Interactive Visualization (IV):**
 - Progressive Aggregation Methods
 - Decision Maker in the Loop
- **Integration of MOO, ML, DM, and IV to support Multicriteria Decision Making**

Additional information about MCDM 2007 can be found at:
www.ieeecis-multidecision.org

Call for Special Sessions

MCDM 2007 also solicits proposals for special sessions within the technical scope of the symposium, generally focusing on a special hot topic. Papers submitted to special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing a special session are invited to submit a proposal to the Special Session Chair, Dr. Raj Subbu, at Subbu@crd.ge.com. Special session proposal should include the session title, a brief description of the scope, a list of potential authors that might submit papers to the special session, and brief bios of the special session organizers.

Paper Submission

Prospective authors are invited to submit papers of no more than eight (8) pages including results, figures and references. Authors should submit their papers as PDF through the online submission system, which will be available at the website <http://www.ieee-ssci.org>. The title page of the paper should include author name(s), affiliation, mailing address, telephone, fax, and e-mail address. Prospective authors are expected to present their paper at the symposium.

Inquiries

For general inquiries of SSCI 2007, contact General Chair David Fogel at dfogel@natural-selection.com. For MCDM 2007 inquires, contact one of the Symposium Co-Chairs:

- Piero Bonissone, at bonissone@crd.ge.com
- Carlos Coello Coello, at coello@delta.cs.cinvestav.mx
- Yaochu Jin, at Yaochu.Jin@honda-ri.de

ADPRL 2007 ORGANIZATION

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