



2012 IEEE World Congress on Computational Intelligence



IEEE Congress on Evolutionary Computation

The annual IEEE Congress on Evolutionary Computation (IEEE CEC) will be held jointly with the International Joint Conference on Neural Networks (IJCNN) and the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) as part of the 2012 IEEE World Congress on Computational Intelligence (IEEE WCCI), June 10-15, 2012, Brisbane Convention and Exhibition Centre, Brisbane, Australia. Cross-fertilization of the three technical disciplines and newly emerging technologies is strongly encouraged.

Call for Contributed Papers

The annual IEEE CEC is one of the leading events in the field of evolutionary computation. It covers all topics in evolutionary computation including:

- Ant colony optimization
- Artificial life
- Agent-based systems
- Bioinformatics and bioengineering
- Coevolution and collective behavior
- Combinatorial and numerical optimization
- Constraint and uncertainty handling
- Evolutionary data mining
- Evolutionary learning systems
- Evolvable/adaptive hardware and systems
- Evolving neural networks and fuzzy systems

- Molecular and quantum computing
- Particle Swarm Optimization
- Artificial immune systems
- Representation and operators
- Industrial applications of EC
- Evolutionary game theory
- Cognitive systems and applications
- Computational finance and economics
- Estimation of distribution algorithms
- Evolutionary design
- Evolutionary scheduling

IEEE CEC 2012 will feature a world-class conference that aims to bring together researchers and practitioners in the field of evolutionary computation and computational intelligence from all around the globe. Technical exchanges within the research community will encompass keynote lectures, special sessions, tutorials and workshops, panel discussions as well as poster presentations. In addition, participants will be treated to a series of social functions, receptions, and networking to establish new connections and foster everlasting friendship among fellow counterparts.

Prospective authors are invited to contribute high-quality papers to IEEE CEC 2012. All papers are to be submitted electronically through the IEEE WCCI 2012 website <http://www.ieee-wcci2012.org/>.

For IEEE CEC inquiries please contact Conference Chair: Garry Greenwood at greenwood@ieee.org
For Program inquiries please contact Program Chair: Xiaodong Li at xiaodong.li@rmit.edu.au.

Sponsors

IEEE WCCI Sponsor
IEEE Computational Intelligence Society (CIS)

IEEE CEC
IEEE Computational Intelligence Society (CIS)
Previously sponsored by the former Evolutionary Programming Society and the Institution of Engineering and Technology



Important Dates

Competition proposals submission deadline

October 17, 2011

Special sessions proposal submission deadline

November 21, 2011

Special session decision notification

November 28, 2011

Paper submission deadline

December 19, 2011

Tutorial and Workshop proposal submission deadline

January 16, 2012

Tutorial and Workshop decision notification

January 23, 2012

Paper acceptance notification date

February 20, 2012

Final paper submission deadline

April 2, 2012

Early registration

April 2, 2012

Conference dates

June 10-15, 2012

IEEE-CEC Organization Committee

Conference Chair
Garry Greenwood, USA

Program Chair
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Mengjie Zhang, New Zealand

Tutorial and Workshop Chair
Janet Wiles, Australia

Competitions Chair
Philip Hingston, Australia

Call for Special Sessions

The IEEE CEC 2012 Program Committee solicits proposals for special sessions within the technical scopes of the Congress. Special sessions, to be organized by international recognized experts, aim to bring together researchers in special focused topics. Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Proposals should include the session title, a brief description of the scope and motivation, biographic and contact information of the organizers. Researchers interested in organizing special sessions are invited to submit formal proposal to the Special Session Chair:

Mengjie Zhang at mengjie.zhang@ecs.vuw.ac.nz.

Call for Tutorials and Workshops

IEEE CEC 2012 will also feature pre-Congress tutorials and workshops, covering fundamental and advanced evolutionary computation topics. A tutorial or workshop proposal should include title, outline, expected enrollment, and presenter/organizer biography. We invite you to submit proposals to the Tutorial and Workshop Chair:

Janet Wiles at janetw@itee.uq.edu.au.

Call for Competitions

IEEE CEC 2012 will host competitions to stimulate research in evolutionary computation, promote fair evaluations, and attract students. The proposals for new competitions should include descriptions of the problems addressed, motivations and expected impact on evolutionary computation, data description, evaluation procedures and established baselines, schedules, anticipated number of participants, and a biography of the main team members. We invite you to submit proposals to the Competitions Chair:

Philip Hingston at p.hingston@ecu.edu.au.

General Enquires for IEEE WCCI 2012 should be sent to the General Chair:
Hussein Abbass at hussein.abbass@gmail.com