

# The Big EC

## 2011 IEEE Congress on Evolutionary Computation

June 5-8, 2011, Ritz-Carlton, New Orleans, USA



### CALL FOR PAPERS

The annual IEEE Congress on Evolutionary Computation (CEC) covers all topics in evolutionary computation, including:

**Ant colony optimization**

**Artificial life**

**Bioinformatics and bioengineering**

**Cognitive systems and applications**

**Computational finance and economics**

**Estimation of distribution algorithms**

**Evolutionary design**

**Evolutionary intelligent agents**

**Evolving neural networks and fuzzy systems**

**Particle swarm intelligence**

**Artificial immune systems**

**Autonomous mental and behavior development**

**Coevolution and collective behavior**

**Combinatorial and numerical optimization**

**Constraint and uncertainty handling**

**Evolutionary data mining**

**Evolvable hardware and software**

**Evolutionary learning systems**

**Molecular and quantum computing**

**Representation and operators**

**CEC 2011** will bring together researchers and practitioners in the field of evolutionary computation and computational intelligence from around the globe. Technical exchanges within the research community will encompass keynote speeches, special sessions, tutorials and workshops, panel discussions as well as presentations and posters. Participants will be treated to a series of social functions and networking sessions, which will serve as a vital channel to establish new connections and foster lasting friendship among fellow counterparts in a very unique New Orleans style.

#### Call for Contributed Papers

Prospective authors are invited to contribute high-quality papers. All papers are to be submitted electronically at <http://cec2011.org>. Program and general inquiries can be made to [TheBigEC@auburn.edu](mailto:TheBigEC@auburn.edu).

#### Call for Competitions

CEC 2011 will host competitions to stimulate research in evolutionary computation, promote fair evaluations, and attract students. 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. These should be submitted to the Competitions Co-Chairs Simon Lucas at [sml@essex.ac.uk](mailto:sml@essex.ac.uk) or Sean Luke at [sean@cs.gmu.edu](mailto:sean@cs.gmu.edu).

#### Call for Special Sessions

Special sessions aim to bring together researchers in special focused topics. Papers submitted for special sessions will be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing special sessions are invited to submit formal proposals to the Special Session Co-Chairs Julian Togelius at [julian@togelius.com](mailto:julian@togelius.com) or Kay Wiese at [wiese@sfu.ca](mailto:wiese@sfu.ca). A special session proposal should include the session title, a brief description of the scope and motivation, and the names, contact information and brief CV of the organizers.

## Call for Tutorials and Workshops

CEC 2011 will feature 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. Researchers interested in organizing tutorials are invited to submit proposals to the Tutorial Co-Chairs Dan Ashlock at [dashlock@uoguelph.ca](mailto:dashlock@uoguelph.ca) or Jennie Si at [si@asu.edu](mailto:si@asu.edu). Those interested in organizing workshops are invited to submit formal proposals to the Workshop Co-Chairs Fahmida Chowdhury at [fchowdhu@nsf.gov](mailto:fchowdhu@nsf.gov) or Clare Bates Congdon at [congdon@usm.maine.edu](mailto:congdon@usm.maine.edu).

### Important Dates

Competition proposals	December 1, 2010
Special Sessions proposals	December 1, 2010
Notification of Special Session acceptance	December 15, 2010
Paper submission	January 15, 2011
Tutorial and Workshop proposals	February 1, 2011
Notification of Tutorial and Workshop acceptance	February 15, 2011
Notification of paper acceptance	March 22, 2011
Final paper submission	April 1, 2011

## CEC 2011 Conference Organizers

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Website: <http://cec2011.org>