



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

Evolutionary multi-objective optimization

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 2015 is a world-class conference that brings 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 lectures, regular and special sessions, tutorials, and competitions, as well as poster presentations. In addition, participants will be treated to a series of social functions, receptions, and networking events to establish new connections and foster everlasting friendship among fellow counterparts.

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Plenary Speakers

Multi-Objective Particle Swarm Optimizers: Past, Present and Future

Professor Carlos A. Coello Coello (CINVESTAV-IPN, Mexico)

Creativity in Evolutionary Arts

Professor Tatsuo Unemi (Department of Information Systems Science, Soka University, Japan)

Optimization in Industry: from Statistics to Evolutionary Methods in Design and Management Applications

Dr. Sergio Butkewitsch Choze (General Electric Global Research Center, USA)

Call for Contributed Papers

Prospective authors are invited to contribute high-quality papers to IEEE CEC 2015. All papers are to be submitted electronically through the IEEE CEC 2015 website <http://www.cec2015.org>.

This time we are calling for EC papers in two categories: **Algorithmic** and **Application**. If your paper mainly focuses on EC algorithms, please submit your paper as "**Algorithmic paper**." If your paper mainly focuses on EC applications, submit your paper as "**Application paper**." Your selection leads to the review from a different aspect. We want to encourage the communication between researchers from algorithms and those from applications. We hope there happen chemistry among researchers from **Algorithms** and **Applications**!

For IEEE CEC inquiries please contact Conference Chair: Shigeru Obayashi at obayashi@ieee.org
For Program inquiries please contact Program Chair: Tadahiko Murata at murata@res.kutc.kansai-u.ac.jp.

Special Sessions

Accepted special sessions are listed at <http://sites.ieee.org/cec2015/accepted-ss/> together with their contact information. When you submit a paper to a special session, please choose its ID number as a main research topic in the paper submission system.

Call for Tutorials

IEEE CEC 2015 will also feature pre-Congress tutorials, covering fundamental and advanced evolutionary computation topics. A tutorial proposal should include title, names and affiliations of presenters, abstract, outline, intended audience and expected enrollment, and presenter biography. We invite you to submit proposals to the Tutorial Chair:

Clare Bates Congdon at congdon@usm.maine.edu.

Competitions

Accepted competitions are shown at http://sites.ieee.org/cec2015/accepted_competitions/. If you are interested in participating one of those competitions, please visit the web page of each competition.

Venue and Access

Sendai is the city located about 350km north of Tokyo. High-speed trains (Tohoku Shinkansen) take less than 2 hours to move from Tokyo Station to Sendai Station. By air, connecting domestic flights to Sendai Airport are available at Tokyo/Narita International Airport, Nagoya/Chubu International Airport and Osaka/Kansai International Airport. Direct international flights are also operated from Seoul, Taipei and Shanghai.

The Sendai International Center is at historical Sendai Castle area and also at Tohoku University campus. Public buses are available every 10 minutes from Sendai Station at \$2. The nearest hotel is at less than 10-minute walking distance, and other nearby hotels are also available for attendees at special rates.

We show a reference of the recent amount of radiation around the world at <http://sites.ieee.org/cec2015/for-your-reference/>. Sendai has a much lower radiation level than many other cities including Seoul, London and New York.

Find us at <http://www.cec2015.org>

Important Dates

Paper submission deadline

December 19, 2014

Tutorial proposals submission deadline

January 9, 2015

Tutorial decision notification

January 23, 2015

Paper acceptance notification

February 20, 2015

Final paper submission deadline

March 13, 2015

Early registration

March 13, 2015

Conference dates

May 25-28, 2015

Sponsors

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



Tohoku University



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