2009 GEC Summit Call for Papers
2009 World Summit on Genetic and Evolutionary Computation
June 12-14, 2009, Shanghai, China -- www.sigevo.org/gec-summit-2009

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Objectives

The 2009 World Summit on Genetic and Evolutionary Computation (2009 GEC Summit) will be held June 12-14, 2009, in Shanghai, China. It is sponsored and organized by ACM/SIGEVO, the Special Interest Group for Genetic and Evolutionary Computation, sponsor of the annual GECCO conferences, and will feature the latest research and demonstrated successes in this dynamic area, including new approaches and breakthrough applications to problems in biology, medicine, engineering design, agriculture, logistics, traffic, security, scheduling, military affairs, and other fields.

Topics (including, but not limited to):

Theoretical/Methodological Research

Genetic Algorithms
Genetic Programming
Evolution Strategies
Evolutionary Programming
Coevolution
Learning Classifier Systems
Ant Colony Optimization
Swarm Intelligence / Particle Swarm
DNA-Based Evolutionary Computation
Interactive Computational Models
Evolutionary Multiobjective Optimization
Evolutionary Combinatorial Optimization
Evolutionary Scheduling and Routing
Simulated Annealing
Estimation of Distribution Algorithms
Tabu Search
And Others

Research in Application Domains

Biological Applications
Medical Applications
Industry Applications
Agricultural Applications
Military and Security Applications
Artificial Life
Search-Based Software Engineering
Evolutionary Robotics
Nature-Inspired Computation
Swarm Intelligence Optimization Applications
Intelligent Control
Intelligent Management
Intelligent Information Processing
Multi-Agent Theory
Pattern Recognition
Web Intelligence
Intelligent Transportation Systems
And Others

Submission of Papers: Authors are invited to submit a paper by **December 20, 2008**. Papers must not exceed 8 pages, must be formatted using the ACM template, and must meet all ACM formatting requirements. All paper submission will be in electronic form only. The template and detailed directions for paper formatting and submission will be found at the conference web site, www.sigevo.org/gec-summit-2009

Review Process

There is a "blind" review process for all submitted papers, with reviews conducted by the Program Committee and other qualified reviewers under their supervision. Acceptance is based on content, presentation and suitability for the conference. Depending on submission volume, some papers may be accepted as poster papers, rather than scheduled for individual presentation times. In that case, the full paper will still appear in the conference proceedings CD, but the author will prepare a poster and present in a special poster session. At least one author of each accepted paper must register for the conference no later than March 23, 2009, or the paper will be withdrawn from the proceedings.

Publication

All accepted papers will be published on CD and in the ACM Digital Library, which is indexed by SCI and EI. Some selected papers will be recommended for publication in expanded versions in such journals as Evolutionary Computation or Genetic Programming and Evolvable Machines, indexed by SCI. All registered participants will receive a CD containing the proceedings.

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Program Committee
Members (To be updated)

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Hao Zhang, China
Jun Zheng, China

More Information

2009 GEC Summit website:
www.sigevo.org/gec-summit-2009.
(Information written in both English and Chinese).
Tel: +86-21-56334945

Presentation of Papers

All accepted papers will appear in the proceedings CD and be presented at the conference. Papers accepted for oral presentation will be given 25-minutes to present. LCD projectors will be provided, but each presenter must bring/arrange for a laptop computer to display the presentation (i.e., PowerPoint). Easels will be provided for each accepted poster.

Tutorials: All FREE to Registered Participants

Registered participants may attend any of the 90-minute tutorials, presented by some of the world's leading experts in evolutionary computation. Tutorials will be distributed throughout the three days of the conference, allowing each participant to decide, at most time slots, to attend either a tutorial or one of 5-6 sessions in which accepted papers are presented. Tutorials are grouped into introductory level, advanced, and specialized tutorials. In general, introductory tutorials in a given area will be scheduled ahead of the advanced tutorials, allowing the interested participant to attend them both in order.

Planned FREE Tutorials:

Introductory

Introduction to Genetic Algorithms	Erik Goodman
Genetic Algorithm Theory and Practice	Darrell Whitley
Evolution Strategies	Thomas Baeck
Gene Expression Programming	Lishan Kang
Grammatical Evolution	Conor Ryan
Introduction to Genetic Programming	Una-May O'Reilly
Introduction to Immunological Computation	Dipankar Dasgupta

Advanced

Evolutionary Multi-Objective Optimization: Current and Future	Kalyanmoy Deb
Adaptive Tuning of Parameters for Evolutionary Computation	Marc Schoenauer
Fast, Effective GA's for Large, Hard Problems	David Goldberg
Genetic Programming Theory	Riccardo Poli
A Unified Framework for Evolutionary Computation	Ken De Jong

Specialized

Linear Genetic Programming	Wolfgang Banzhaf
Quantum Computing and EC	Lee Spector
Industrial & Corporate Data Modeling	Mark Kotanchek

Co-Organizers:

Tongji University

Shanghai University

Donghua University

Supporters:

(To be updated)

Ministry of Education, China

National Natural Sci. Foundation of China

Sci. & Tech. Committee of Shanghai , China

Shanghai Maritime University

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