CFP: 2006 GENETIC AND EVOLUTIONARY COMPUTATION CONFERENCE (GECCO-2006)

CALL FOR PAPERS FOR

2006 GENETIC AND EVOLUTIONARY COMPUTATION CONFERENCE (GECCO-2006)
July 8-12, 2006 (Saturday-Wednesday)
Seattle, Washington, USA

Largest Conference in the Field of Genetic and Evolutionary Computation
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PAPER SUBMISSION DEADLINE: Wednesday, January 18, 2006

Organized by ACM SIG-EVO
www.sigevo.org

15th International Conference on Genetic Algorithms (ICGA)
and the 11th Genetic Programming Conference (GP)

The Genetic and Evolutionary Computation Conference (GECCO-2006) will present the latest high-quality results in the growing field of genetic and evolutionary computation. Topics include: genetic algorithms, genetic programming, evolution strategies, evolutionary programming, real-world applications, learning classifier systems and other genetics-based machine learning, evolvable hardware, artificial life, adaptive behavior, ant colony optimization, swarm intelligence, biological applications, evolutionary robotics, evolutionary combinatorial optimization, coevolution, artificial immune systems, and more.

Each paper submitted to GECCO-2006 will be rigorously reviewed, in a double-blind review process, by one of the 16 separate and independent specialized program committees that make final decisions, subject only to conference-wide space limitations and procedures.

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16 PROGRAM TRACKS
Genetic Algorithms: Franz Rothlauf, Dirk Thierens
Genetic Programming: Conor Ryan
Evolution Strategies,
Evolutionary Programming: Dirk Arnold
Real-World Applications: Vladan Babovic
Learning Classifiers and
Genetics-Based Machine Learning: Martin Butz
Evolvable Hardware: Greg Hornby
Biological Applications: James Foster
Artificial Life, Evolutionary Robotics,
Adaptive Behavior: Hod Lipson
Ant Colony Optimization and
Swarm Intelligence: Christian Blum
Evolutionary Combinatorial Optimization: G□ther Raidl
Coevolution: Sevan G. Ficici
Artificial Immune Systems: Dipankar Dasgupta
Evolutionary Multiobjective Optimization: Carlos A. Coello Coello,
Arturo Hernandez-Aguirre
Meta-heuristics and Local Search: Jean-Paul Watson
Estimation of Distribution Algorithms: Peter Bosman
Search-Based Software Engineering: Phil McMinn

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ONE CONFERENCE & MANY MULTI-CONFERENCES
Program Tracks
Three days of presentations of the latest high-quality results in 16 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation.

Free Tutorials and Workshops
Two days of free tutorials and workshops (included with conference registration) presented by some of the world's foremost experts in topics of interest to genetic and evolutionary computation researchers and practitioners.

FREE TUTORIALS (with others to be announced)

Introductory
Genetic Algorithms Erik Goodman
Ant Colony Optimization Christian Blum
Evolution Strategies Thomas B□k
Learning Classifier Systems Tim Kovacs
Particle Swarm Intelligence Russell Eberhart
Probabilistic Model-Building GAs Martin Pelikan
A Unified Approach to EC Kenneth De Jong

Advanced
Genetic Programming Theory Riccardo Poli
Evolvable Hardware Adrian Stoica
No Free Lunch Darrell Whitley
Representations Franz Rothlauf
Evolutionary Multiobjective Optimization Eckart Zitzler, Stefan Bleuler
Evolvable Hardware Applications Tetsuya Higuchi
Evolving Neural Networks Risto Miikkulainen
Experimental Research in EC Mike Preuss, Thomas Bartz-Beielstein
Fitness Landscapes and Problem Difficulty Jean-Paul Watson
Genetic and Evolutionary Computer Vision Stefano Cagnoni
Human Competitive Results John Koza
Spatially Structured EAs Marco Tomassini
Quantum Computing Lee Spector
Systems Biology and EC Stefan Bleuler, Philip Zimmermann,

Eckart Zitzler

MORE INFORMATION
To propose a tutorial, contact Mike Cattolico: mike@tigerscience.com .
Include "GECCO" in your subject line.

To propose a workshop, contact Jano van Hemert: Jano.van.Hemert@cwi.nl .
Include "GECCO" in your subject line.

Visit www.sigevo.org for information about tutorial and workshop updates, papers review process and deadlines, electronic submission procedures, formatting details, student travel grants, hotel reservations, travel discounts, student housing, graduate student workshop, late-breaking papers, and more.