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## The Sixth International Conference on Genetic and Evolutionary Computing

August 25~ August 28, 2012, Kitakyushu, Japan

**ICGEC 2012** is the Sixth International Conference on Genetic and Evolutionary Computing. The conference this year is technically co-sponsored by IEEE, The Waseda University in Japan, and Kaohsiung University of Applied Science in Taiwan. ICGEC 2012 will be held in Kitakyushu City, Japan with the websites: <http://bit.kuas.edu.tw/~icgcec12>. The conference is intended as an international forum for the researchers and professionals in all areas of genetic and evolutionary computing. Proceedings of ICGEC 2012 will be published by the Conference Publishing Service of the IEEE Computer Society. Normally, it will be indexed by IET INSPEC, EI (Compendex), Thomson ISTP, DBLP. Furthermore, extended versions of selected papers will be published in several journals. We invite submissions of papers presenting a high-quality original research and development for the conference tracks: (1) Genetic Computing, (2) Evolutionary Computing, (3) Intelligent Computing, and (4) Grid Computing.

**SCOPE:** Topics of interest include, but are not limited to:

#### Track I: Genetic Computing

- Genetic Algorithm & Programming
- Generative and Developmental Systems
- Genetics-Based Machine Learning and Learning Classifier Systems
- Empirical studies of genetic programming performance and behavior
- Hybrid architectures including genetic programming components

#### Track II: Evolutionary Computing

- Evolutionary Design & Application
- Evolutionary of tree or graph structures
- Evolutionary of various classes of automata or machine
- Evolutionary Combinatorial & Multi-Objective Optimization
- Evolutionary Strategies, Evolutionary Programming
- Evolutionary Scheduling and Routing
- Bioinformatics and Computational Biology

#### Track III: Intelligent Computing

- Swarm Intelligence and Optimization
- Ant Colony Optimization and Swarm Intelligence
- Artificial Immune Systems
- Artificial Intelligence and Decision Support Systems
- Intelligent Information Fusion and Data Mining
- Intelligent Database Systems
- Knowledge Discovery and Management
- Neural Networks and its Applications
- Pattern Recognition and Self-Adaptation Techniques
- Intelligent Computer Vision & Scientific Visualization

#### Track IV: Grid Computing

- Grid Resource Management and Task Schedule
- Grid Trust and Security
- Distributed and Parallel Computing
- Distributed Intelligent Processing
- Peer-to-Peer Architecture

#### Important Dates

- The deadline for paper submission: June 15, 2012
- The date for notification: June 30, 2012
- The due date for camera-ready copy submission: July 7, 2012

#### Submission

Please submit your papers via the online submission system located at <http://bit.kuas.edu.tw/~icgcec12>