IEEE

IEEE Signal Processing Society

The Fourth International Conference on Genetic and Evolutionary Computing

December 13 - 15, 2010
Shenzhen, China

Honorary Chairs:
Shuguo Wang, Harbin Institute of Technology, China
Weixin Xie, Shenzhen University, China
Lakhmi C. Jain, University of South Australia, Australia

International Advisory Chairs:
Guangjun Jin, Shenzhen Graduate School of Harbin
Institute of Technology, China
Shuangchen Ruan, Shenzhen University, China
Ajith Abraham, Norwegian University of Science and Technology, Norway
Bin-Yih Liao, Kaohsiung University of Applied Sciences, Taiwan
Qing Li, City University of Hong Kong, Hong Kong

Conference Chairs:
Jeng-Shyang Pan, Shenzhen Graduate School of Harbin Institute of Technology, China
Youfu Du, Yangtze University, China
Mingyue Ding, Huazhong University of Science and Technology, China

Program Committee Chairs:
Xia Li, Shenzhen University, China
Junzo Watada, Waseda University, Japan
Qingyu Zhang, Harbin Institute of Technology, China

Organizing Chairs:
Xuan Wang, Harbin Institute of Technology, China
Feng Wang, Huanggang normal University, China
Tinglei Huang,Guilin University of Electronic Technology, China
Xiaolong Wang, Harbin Institute of Technology, China

Invited Session Chairs:
Tzung-Pei Hong, University of Kaohsiung, Taiwan
Zheming Lu, Zhe Jiang University, China
Chee Peng Lim, Universiti Sains Malaysia, Malaysia

Publication Chairs:
Yong Xu, Harbin Institute of Technology, China
Chin-Shiuh Shieh, Kaohsiung University of Applied Sciences, Taiwan

Electronic Media Chair:
Hongpeng Wang, Harbin Institute of Technology, China

Finance Chair:
Dan Cui, Harbin Institute of Technology, China

Contact:
Dr. Junbao Li
ICGEC 2010 Secretariat
Email: junbaolihit@126.com

ICGEC 2010 is the fourth International Conference on Genetic and Evolutionary Computing. The conference this year is technically co-sponsored by IEEE, Harbin Institute of Technology, Shenzhen University, Shenzhen City Goverment and Kaohsiung University of Applied Science in Taiwan. ICGEC 2010 will be held in Shenzhen City, China with the websites: http://iiirc.hitsz.edu.cn/ICGEC2010/ and http://bit.kuas.edu.tw/~icgec10/
The conference intended as an international forum for the researchers and professionals in all areas of Genetic and Evolutionary Computing. Proceedings of ICGEC 2010 will be published by the Conference Publishing Service of the IEEE Computer Society, normally, it will be indexed by to IEE INSPEC, EI (Compendex), Thomson ISTP, DBLP. Furthermore, extended versions of selected papers will be published in 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, (4) Grid Computing.

SCOPE: Topics of interest include, but 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 Recongnition 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

Paper submission at: http://bit.kuas.edu.tw/~icgec10/

Extended versions of selected papers will be published in the Spinger-Verlag in 'Studies in Computational Intelligence' series

Important Dates:

The deadline for paper submission	June 30 2010
The date for notification of reviewing result	July 31, 2010
The deadline for camera-ready paper submission	August 31, 2010

The Conference Proceedings will be putlished by IEEE Press