



CIEF 2008 Call for Papers & Special Sessions

The 7th International Conference on Computational Intelligence
In Economics and Finance

December 5-7, 2008 Taoyuan, Taiwan

<http://www.aiecon.org/scief/conference.htm>

Keynote Speakers:

- Barkley Rosser (James Madison University, USA)
- Paul Wang (Duke University, USA)
- Akira Namatame (National Defense Academy, Japan)

Aim and Purpose:

The purpose of our conference is to carry on the legacy of Herbert Simon, who broke down the conventional distinctions among economics, computer science and cognitive psychology, and initiated new interdisciplinary research field that we now refer to as computational information in economics. Since Year 2000, CIEF has prosperously become a world-wide forum for researchers and practitioners to exchange new ideas and latest progress in two promising research areas -Computational Intelligence (CI) and Object-Based Modeling and Simulation (OBMS). With the fast growth of these two research approaches, in depth, CIEF has now accommodated not only object-oriented computational economics (OCE) but also studies in econometrics, experimental economics, behavioral economics, neuroeconomics, and econophysics. In width, CIEF has extended the areas of interest from intelligent computing in economics and finance to management and social sciences.

Scope and Areas:

Special session proposals devoted to the above purpose are solicited. Papers describing new techniques and/or novel applications related to, but not limited to, the following topics are invited. Practical experiences with state-of-the-art AI methodologies applied to Economic or Finance are preferably welcomed.

Application Areas:

- Agent-Based Computational Economics
- Artificial Stock Markets
- Behavioral Finance
- Experimental Economics
- Simulation of Social Processes
- Evolutionary Game and Industrial Organization
- Financial Engineering
- Financial Data Mining
- Trading Strategies
- Hedging Strategies
- Portfolio Management
- Derivative Pricing
- Term Structure Models
- Financial Time Series Forecasting and Analysis

Techniques:

- Artificial Neural Networks
- Self-Organized Map
- Support Vector Machines
- Fuzzy Logic
- Evolutionary Strategies
- Evolutionary Programming
- Genetic Algorithms
- Genetic Programming
- Learning Classifier Systems
- Statistical Classifiers
- Cluster Analysis
- Decision Trees
- Inductive Logic Programming
- Reinforcement Learning
- Wavelets
- Ant Algorithms
- Independent Component Analysis
- Sequential Monte Carlo Methods
- State Space Models
- Grey Models
- Swarm Intelligence
- Hybrid Models
- Rough Sets
- Hybrid System
- Artificial Immune Systems
- Econometrics



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Paper Submission and Review:

All submitted papers must be prepared in LaTeX or Word format according to the instruction on the Conference website. The length of submitted papers must be no more than 7 pages including all figures, tables and bibliography. Each contributed paper will be reviewed by 3 independent Program Committee members and will be accepted if it receives at least 2 reviewers' support. Some paper maybe selected for possible inclusion in *Journal of Information Sciences*, *Journal of New Mathematics and Natural Computation*, and a book volume published by an internationally renowned publisher.

Important Dates:

Paper Submission Deadline: August 04, 2008

Paper Acceptance Notification: September 15, 2008

Registration Deadline: October 13, 2008

Conference Dates: December 5-7, 2008

Sponsors:

- AI-ECON Research Center, National Chengchi University, Taiwan
- *Information Sciences* Journal
- *New Mathematics and Natural Computation* Journal
- Kainan University, Taiwan
- Society of Computational Intelligence in Economics and Finance
- Society for Mathematics of Uncertainty

Conference Chair:

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