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The Seventh International Conference on Simulated Evolution And Learning
(SEAL'08)
7 ~ 10 December 2008, Melbourne, Australia
http://www.cs.rmit.edu.au/seal08/

Hosted and Sponsored by
Evolutionary Computation and Machine Learning Group (ECML)
School of Computer Science and IT, RMIT University
Department of Computer Science and Software Engineering,
The University of Melbourne
School of Information Technology, Monash University

AIMS AND SCOPES

Evolution and learning are two fundamental forms of adaptation. SEAL'08
is the seventh biennial conference in the highly successful series that
aims at exploring these two forms of adaptation and their roles and
interactions in adaptive systems. Cross-fertilisation between evolutionary
learning and other machine learning approaches, such as neural network
learning, reinforcement learning, decision tree learning, fuzzy system
learning, etc., will be strongly encouraged by the conference.
The other major theme of the conference is optimisation by evolutionary
and other nature inspired approaches. The topics of interest to this
conference include but are not limited to the following:

1. Evolutionary Learning

Fundamental Issues in Evolutionary Learning   Co-Evolutionary Learning
Modular Evolutionary Learning Systems   Classifier Systems
Representation Issues in Evolutionary Learning   Artificial Immune Systems
Interactions Between Learning and Evolution Credit Assignment
Swarm Intelligence   Collective Intelligence
Comparison between Evolutionary Learning and Other Learning Approaches,

2. Evolutionary Optimisation

Combinatorial Optimisation   Numerical/Function Optimisation
(e.g., scheduling, allocation, planning,   Hybrid Optimisation Algorithms
packing, transportation, etc.)   Comparison of Algorithms
Nature-Inspired Algorithms (ant colony optimisation, particle swarm
optimisation, memetic algorithms, simulated annealing, ...)

3. Hybrid Learning

Evolutionary Artificial Neural Networks   Evolutionary Fuzzy Systems
Evolutionary Reinforcement Learning   Evolutionary Clustering
Evolutionary Decision Tree Learning   Evolutionary Unsupervised Learning
Genetic Programming   Other Hybrid Learning Systems
Developmental Processes

4. Adaptive Systems

Complexity in Adaptive Systems   Evolutionary Robotics
Evolvable Hardware and Software   Artificial Ecology
Evolutionary Games   Self-Repairing Systems
Evolutionary Computation Techniques in Economics, Finance and Marketing

5. Theoretical Issues in Evolutionary Computation

Convergence and Convergence Rate of Evolutionary Algorithms
Computational Complexity of Evolutionary Algorithms
Self-Adaptation in Evolutionary Algorithms

6. Real-World Applications of Evolutionary Computation Techniques

KEYNOTE SPEAKERS

Professor Kalyanmoy Deb (India)
Professor Zbigniew Michalewicz (Australia)
Professor Xin Yao (United Kingdom)
Professor Hussein Abbass (Australia)

IMPORTANT DATES
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30 June 2008   Deadline for submission of full papers (<=10 pages)
18 August 2008   Notification of acceptance
8 September 2008   Deadline for camera-ready copies of accepted papers
7 ~ 10 December 2008   Conference sessions (including tutorials and workshops)

PUBLICATIONS

All accepted papers which are presented at the conference will be included in
the conference proceedings, published as LNCS (Lecture Notes in Computer
Science) by Springer. Selected best papers will be invited for further revisions
and extensions for possible publications by two journal special issues (Soft

Computing and Evolutionary Intelligence).

For more information please visit: http://www.cs.rmit.edu.au/seal08/

For general inquiries, please contact one of the following people:
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