

# Workshop on Theory and Applications of Evolutionary Algorithms

## Important Dates

Paper submission:

**June 1, 2010**

Notification of decision:

July 22, 2010

Final manuscript:

August 20, 2010

## Organizers

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**E**volutionary algorithms are global search algorithms that mimic natural evolution such as selection, crossover, and mutation. Their effectiveness has been widely proved on various search and optimization problems. This workshop will focus on the theory and applications of evolutionary algorithms, e.g., genetic algorithm, evolution strategies, genetic programming, particle swarm optimization, ant colony optimization, artificial immune systems, estimation of distribution algorithms, differential evolution, and memetic algorithms.

The aim of this workshop is to explore recent research advances on the theoretical as well as practical aspects of evolutionary algorithms. Topics of interest include, but are not limited to:

#### Theory:

- Runtime and convergence analysis
- Population dynamics
- Empirical or experimental study
- Performance measure
- Hybrid method
- New paradigm of evolutionary algorithm

#### Applications:

- Numerical/combinatorial optimization
- Multi-objective optimization
- Computer vision and image processing
- Data mining
- Scheduling/planning/routing
- Engineering design
- Computer networks
- Bioinformatics

## Submission

Please use the TAEA@TAAI 2010 online submission system at <http://submission.nclab.tw/TAEA-2010/iChair/>.

(For paper format and guideline, please refer to the TAAI website.)

\*Accepted papers will be invited to submit their extended versions to special issue of International Journal of Engineering, Science and Technology (IJEST).