

Special Session on Theory and Applications of Evolutionary Algorithms (TAEA)

Nov 30–Dec 2, Taichung, TAIWAN

Important Dates

Submission:

Sep 20, 2018

Notification:

Oct 07, 2018

Final manuscript:

Oct 20, 2018

Organizers

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Evolutionary 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 special session will focus on the theory and applications of evolutionary algorithms, e.g., genetic algorithms, 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 special session is to bring together researchers to present and exchange ideas and results in the area of evolutionary computation. Topics of interest include, but are not limited to:

Theory:

- Design of new paradigm of evolutionary algorithms
- Runtime and convergence analysis
- Empirical or experimental study
- Linkage discovery
- Population dynamics
- Performance measure
- Hybrid method

Applications:

- Numerical/combinatorial optimization
- Multi-objective optimization
- Data mining/machine learning
- Scheduling/planning/routing
- Engineering design
- Computer networks
- Bioinformatics
- Music, Art, and Creativity

Submission

TAEA includes both **international** and **domestic** tracks. Full paper manuscripts for international track should be in English and for domestic track is in Chinese, both with IEEE two-column format (max 6 pages). Please indicate [TAEA] while submitting your manuscript.

Publication

All accepted papers will be published in the TAAI 2018 proceedings. Selected accepted papers will receive Best Paper Awards and be invited for publication in special issues of several international journals (to be announced).