

Call for Papers

Invited Session on Evolutionary Computation and Data Mining (ECDM 2014)

<http://ecdm2014.nclab.tw>

The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014)

10-12th November 2014, Singapore

<http://www.ies-2014.org>

Overview & Scope

Evolutionary computation has been successfully applied to many aspects of data mining. For example, as reported in the literature, genetic algorithm (GA), particle swarm optimization (PSO), ant colony optimization (ACO), and several evolutionary algorithms have been adopted to handle data clustering and classification. On the other hand, advances in data mining, an important section in data engineering and automated learning, also assist optimization algorithm designers to develop better methods. For instance, Apriori algorithm has been utilized for finding the relationship among decision variables for optimizers. In order to bridge the concepts and methodologies from the two ends, this invited session concentrates on the related topics of integrating and utilizing algorithms in evolutionary computation and data mining. It provides the opportunity for practitioners handling their data mining issues by using evolutionary computation methodologies and for researchers investigating evolutionary computation with data mining approaches to share findings and look into future directions.

This invited session aims at providing a forum for adopting the state-of-the-art evolutionary computation techniques in data mining, developing the advanced evolutionary computation techniques by using data mining methods, as well as exchanging of related ideas and discussing the future directions. We invite researchers to submit their original and unpublished work related to, but not limited to, the following topics:

- Data mining with evolutionary computation techniques
- Evolutionary computation techniques based on data mining concepts and/or methods
- Multi-objective evolutionary computation and data mining
- Parallelization in evolutionary computation and data mining
- Performance measure and benchmarks
- Theoretical aspects of data mining and evolutionary computation
- Real-world applications

Submission Guidelines

Please follow the IES 2014 [Paper Submission & Manuscript Guidelines](#) and submit your paper via the IES 2014 [online submission system](#) with specifying that your paper is for the Invited Session on Evolutionary Computation and Data Mining (SS5).

Important Dates

Submission Deadline: 1 August 2014

Acceptance: 1 September 2014

Camera-Ready Submission: 1 October 2014

Symposium Dates: 10-12th November 2014

Organizers

- **Chuan-Kang Ting**, National Chung Cheng University, Taiwan
- **Ying-ping Chen**, National Chiao Tung University, Taiwan
- **Jing Liang**, Zhengzhou University, China

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