

Special Issue on
**Evolutionary Computation and Data Mining in
Communications and Networks**

CALL FOR PAPERS

By the rapid growth of the network and communication application, the amount of information and data, which are produced, is extremely massive. To solve the mentioned problem, evolutionary and data mining can be considered. Evolutionary computation and data mining are an important research area at the interface of artificial intelligence (AI) and engineering which are interesting topics for researchers. Also, data mining is the process to identify valid, implicit, useful information from large database. The objective of this special issue is to bring together research and development of evolutionary computation and data mining techniques and their applications in scientific and engineering fields, in particular communications and networks.

This special issue focuses on both aspects of evolutionary computation and data mining theoretically and practically which can apply on communications and networks. For instance, optimization algorithms such as genetic algorithm, particle swarm optimization, evolutionary based hyper-heuristics, and memetic algorithms can be proposed in evolutionary computation and extreme learning machine, support vector machine, neural network, feature selection models, prediction, image processing, and so forth can be proposed in data mining.

Potential topics include but are not limited to the following:

- ▶ Mathematical modelling and simulation in networks
- ▶ Evolutionary computation for wireless local area networks
- ▶ Data mining in applications of autonomous vehicles
- ▶ Data mining and knowledge discovery in wireless multimedia data
- ▶ Data reduction and feature extraction in telecommunication
- ▶ Applications of optimization algorithms for broadband network
- ▶ Fuzzy methods in satellite communication system
- ▶ Machine learning applications for wireless communications
- ▶ Pattern recognition applications in WLAN
- ▶ Neural network for communications
- ▶ Multiobjective evolutionary algorithm and its applications in antenna system
- ▶ Extreme learning machine in MIMO

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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