



International Conference on Electrical, Electronics & Optimizations Techniques

3rd – 5th March, 2016 | Tamil Nadu, India.

Session Title - Soft Computing for Knowledge Discovery and Data Mining (SCKDDM)

Theme and aim of the special section:

Soft computing is a consortium of methodologies, (like fuzzy logic, neural networks, genetic algorithms, rough sets), that works synergistically and provides, in one form or another, flexible information processing capabilities for handling real life problems. Its aim is to exploit the tolerance for imprecision, uncertainty, approximate reasoning and partial truth in order to achieve tractability, robustness, low solution cost, and close resemblance with human like decision-making. The process of knowledge discovery from data bases (KDD), on the other hand, is a real life problem solving paradigm and is defined as the non-trivial process of identifying valid, novel, potentially useful and understandable patterns from large data bases, where the data is frequently ambiguous, incomplete, noisy, redundant and changes with time. Data mining is one of the fundamental steps in the KDD process and is concerned with the algorithmic means by which patterns or structures are enumerated from the data under acceptable computational efficiency. Soft computing tools, individually or in integrated manner, are turning out to be strong candidates for performing data mining tasks efficiently. At present, the results on these investigations, integrating soft computing and data mining, both theory and applications, are being available in different journals and conference proceedings mainly in the fields of computer science, information technology, engineering and mathematics.

Data mining is the science and technology of exploring large and complex bodies of data in order to discover useful patterns. It is extremely important because it enables modeling and knowledge extraction from abundant data availability. Soft Computing for Knowledge Discovery and Data Mining introduces soft computing methods extending the envelope of problems that data mining can solve efficiently, thus presenting practical soft-computing approaches in data mining.

The area of interest for this session includes principal constituents of soft computing: neural networks, evolutionary algorithms and fuzzy logic followed by recent advances areas in soft computing for data mining, such as swarm intelligence, supervised methods and agent technology. This special session encourages scientists, researchers and academicians to contribute, share and present their findings and thoughts in the fields of information systems, engineering, computer science, statistics and management (including various applications in the domain of manufacturing, medical, banking, insurance and others real-world case studies) with a profound source for the role of soft computing in data mining. Practitioners and researchers are also encouraged in contributing their paper consisting of the description of real world data mining projects performed with soft computing.

The objective of this special session is to assemble a set of high-quality original contributions that reflect the advances and the state-of-the-art in the area of Data Mining and Knowledge Discovery with Soft Computing Methodologies.

Website: www.iceeot.org

All papers will be published by IEEE Xplore and will be index by SCOPUS

Topics:

- Neural Networks for Data Mining
- Supervised and unsupervised methods in Data Mining
- Evolutionary Methods and Evolutionary Algorithms for Data Mining
- Genetic Algorithms and Genetic Clustering for Data Mining
- Grammar-based Genetic Programming
- Fuzzy Sets and Fuzzy Systems in Data Mining
- Support Vector Machines for Data Mining
- KDD using Soft Computing Techniques
- Swarm Intelligence Algorithms for Data Mining and Data Clustering
- Data Mining and Agent Technology
- Hybrid Data Mining Techniques for Knowledge Discovery

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Special Session Title: **Soft Computing for Knowledge Discovery and Data Mining (SCKDDM)**

We are organizing a special session on **“Soft Computing for Knowledge Discovery and Data Mining ”** in The IEEE International Conference on Electrical, Electronics & Optimizations Techniques (ICEEOT-2016). During 3rd – 5th March, 2016 in the city of Tamil Nadu, India.

Special Session Submissions can only be submitted to the Session Coordinator Mail Id - mitra.anirban@gmail.com

Publication of Conference Papers (Special Sessions)

All papers will be published by IEEE Xplore. As well as indexed by SCOPUS

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