

HYBRID EVOLUTIONARY COMPUTATIONAL TECHNIQUES

Kuldeep S. Raghuwanshi

Various machine learning techniques has proven their effect on optimizing the result of complex problems in all domain of engineering. Evolutionary computational techniques come under unsupervised machine learning techniques those are very efficient in solving highly complex discrete problems. This special session will cover all Evolutionary techniques like Genetic Algorithm, Particle Swarm Optimization, Genetic Programming, Evolutionary Strategies, Ant Colony Optimization, Artificial Bee Colony Algorithm, and Differential Evolution and their applications.

Many researchers have optimized the performance of these techniques by using jointly or using their parameters in different ways, so till now many form of these techniques have evolved. This special session will provide the opportunity for researchers to present their research in Computational Evolutionary techniques.

The aim of this special session is to provide the platform for researchers, students and academicians for dissemination their research work in Evolutionary Computational Techniques.

Topics

- Agent-Based Systems
- AI and Evolutionary Algorithm
- Ant Colony Optimization
- Machine Learning
- Genetic Programming
- Swarm Intelligence
- Robotic Swarm
- Reinforcement Learning



- Heuristic Search
- Automated problem solving
- Cognitive Systems and Applications
- Collective Intelligence
- Intelligent Agents
- Decision Support Systems
- PSO
- GA