Special Session on
Machine Intelligence and Optimization Algorithms in Digital Ecosystem for Sustainable Development
at
13th International Conference on Soft Computing and Pattern Recognition (SoCPaR)

On
World Wide Web
December 15-17, 2021

http://www.mirlabs.net/socpar21/

Objectives and Scope

This special session aims to provide an international platform for academicians, researchers, professionals, and industrial practitioners to share their knowledge in this highly emerging area of Machine Intelligence and Optimization Algorithms for Digital Ecosystem.
Soft Computing has many Machine Learning and Artificial Intelligence components as it is more about analysis of complex systems. The research contributions are invited related to Machine Learning, Artificial Intelligence, Automatic Recognition & Optimization of Patterns for Digital Ecosystem.

An objective of this special session is to agglomerate Artificial Intelligence and Machine Learning techniques to provide optimized solutions for research in digital ecosystem for Sustainable Development. It will focus on digital ecosystem architectures, Algorithms, intelligence for digital ecosystem. A digital ecosystem is a group of interconnected information technology resources that can function as a unit. It is intended to collect novel ideas and share different experiences in the field of soft computing for evolving techniques such as evolutionary computing, hybrid intelligence, scalability and sustainability, neural networks , neuro fuzzy system , smart data processing , visual diagram of all digital tools and platforms used within the organization , etc.
Even though, majority of the problems have been solved using Machine Intelligence techniques, real-world complex and industrial problems require the integration of several of these techniques to achieve the efficiency and accuracy needed in practice. Submission of papers covering theoretical and application aspects are encouraged. Our special session will target various application areas of optimizations using various techniques that affect human behaviours, thoughts, and intentions across different domains. We believe that this special session will have great significance, not only on academia, Industry but also on society as a whole.

The topics of interest of the special session include, but are not limited to:

Machine Intelligence and related Methods

- Ensemble Methods
- Neural Networks
- Neuro-Fuzzy Intelligence
- Hybrid Intelligent System
- Artificial Immunological Computing
- vertebrate immune system
- Probabilistic Computing
- Ant Colony Optimization
- Particle Swarm Optimization
- Artificial Bee Colony
- Evolutionary Computing
- Heuristic Optimization
- Rule-based Machine Learning

Applications of Machine Intelligence and Optimization for Pattern Recognition in Digital Ecosystems for Sustainable Development

- Multimedia Data Modelling
- Grid Computing and Optimization
- Cloud Computing
- Predictive Analytics
- Big Data Analytics
- Intelligent Systems for Internet of Things
- Intelligence Systems for Cyber Physical Systems
- Intelligent Algorithms for Data Semantics
- Knowledge Extraction
- Collective Intelligence
- Sensor Networks and Intelligent Systems
- Data Indexing for Information Retrieval
- Social Media Analytics
- Data Visualization and Analytics
- Mobile Computing

Paper Publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (Indexed in SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago) https://www.springer.com/series/15179
- Papers maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324

Important Dates
Paper submission due: September 30, 2021
Notification of paper acceptance: October 31, 2021
Registration and Final manuscript due: November 15, 2021
Conference: December 15-17, 2021

Special Session Chair

- Dr. Professor Anuradha Thakare, Computer Engineering Pimpri Chinchwad College of Engineering, Pune Savitribai Phule Pune University, Pune, India
- Dr. Manisha Bhende, Computer Engineering Dr. D.Y. Patil Institute of Engineering, Management and Research, Pune Savitribai Phule Pune University, Pune, India

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