

## **CALL FOR PAPERS**

### **Special Session on “Machine Learning & Nature Inspired Algorithms”**

#### **Session Chair(s):**

Dr. Baij Nath Kaushik, Sharada University, Uttar Pradesh

#### **Theme of Session:**

In the recent years, machine learning and nature inspired algorithms has emerged as powerful techniques for solving problems involve huge loads of data. Machine learning provides algorithms and tools that are useful for solving classification and regression tasks in the supervised learning problems, clustering and frequent pattern mining tasks in unsupervised learning problems, tasks of controlling the behavior of machines in reinforcement learning problems. Nature inspired algorithms are motivated from natural or biological or physical metaphors to provide acceptable solutions of complex real-world problems with in time constraint. It provide number of algorithms such as Gravitational Search Algorithm (GSA), Chemical Reaction Optimization (CRO), Central Force Optimization (CFO), Cuckoo Search and Firefly Search Algorithm which can combined with techniques such as Genetic Algorithms (GA), Particle Swarm Optimization (PSO) and Artificial Neural Network (ANN).

**The main aim of this special session is to:**

- Bring researchers and experts together to discuss and share their experiences
- Share the current and new research topics and ideas,
- Improve and enhance personal, enterprise, national and international awareness,
- Provide a platform to present and discuss recent advancements,
- Increase international collaborations among university–industry-institutions,

#### **Topics of Interest:**

**We invite original (un-published) research contributions based on the above mentioned theme including following topics but not limited to:**

- Data Mining, Data Science and Big Data,
- Classification Systems
- Association Rules
- Clustering
- Social Media, Social Networking, Social Data,
- Features Selection for Nature Algorithms and Machine Learning
- Rough Set Applied to Nature Algorithms and Machine Learning
- Fuzzy Set Applied to Nature Algorithms and Machine Learning
- Genetic Algorithms Applied to Nature Algorithms and Machine Learning
- Neural Network Applied to Nature Algorithms and Machine Learning
- Applications of Nature Algorithms and Machine Learning
- Soft Set Applied to Nature Algorithms and Machine Learning

**Paper Submission Process:**

Please submit your paper (in word/pdf format) at  
email: [specialsessionmlandnl2017@gmail.com](mailto:specialsessionmlandnl2017@gmail.com)  
with 'Name of Special Session: ' mentioned in the subject line.

**Program Committee:** Name(s), Affiliation(s)

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**For any further queries related to this special session, please contact the session chairs at:**

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