

# International Conference on Machine Intelligence and Signal Processing (MISP 2019),September 7-10, 2019 Indian Institute of Information Technology (IIIT) Allahabad, Allahabad, 2011015, Uttar Pradesh, India



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# **MISP 2019**

The international conference on Machine Intelligence and Signal Processing (MISP 2019) will be held at Indian Institute of Information Technology Allahabad, Uttar Pradesh, India, on September 7-10, 2019. This conference is meant for researchers from academia, industries and research & development organizations all over the globe interested in the areas of data mining, artificial intelligence, optimization, machine learning methods/ algorithms, signal processing theory and methods, and applications to human brain disorders like epilepsy, Alzheimer's, sleep disorders etc. Other applications of machine learning and signal processing techniques are also welcome. It will put special emphasis on the participations of PhD students, Postdoctoral fellows and other young researchers from all over the world. It would be beneficial to bring together a group of experts from diverse fields to discuss recent progress and to share ideas on open questions. The conference will feature world-class keynote speakers in the main areas.

# Topics in the MISP 2019 Technical Program include but are not limited to:

# Signal Processing

- · Time-frequency analysis
- · Nonlinear signal processing
- · Nonstationary signal processing
- Adaptive signal processing
- Biomedical signal and image processing
- Signal transforms
- Multirate signal processing
- Signal processing methods and algorithms
- Signal processing applications
- Other areas in signal processing

# **Machine Learning**

- Feature extractions
- Least-squares SVM (LS-SVM)
- Support vector machines (SVM)
- Machine learning methods
- Twin SVM (TWSVM)
- Extreme learning machine (ELM)
- Artificial neural network (ANN)
- Kernel design
- Other areas in machine learning.

# **Big Data Analytics**

- Big Data novel theory, algorithm and application
- 5 V's of Big Data
- MapReduce for Big Data processing
- Distributed file systems for Big Data
- Big Data visualization
- Big Data mining
- Large data stream processing
- Big Data Applications
- Sensor network, social network and big data

# **Computational Learning Theory**

- Deep and Active Learning
- Incremental Learning and Online Learning
- Reinforcement Learning and Planning
   Manifold Learning and
- Regularization

   Multi-Task Learning
- Semi-Supervised Learning
- Dimensionality Reduction
- Probabilistic Methods
- Support Vector MachineExtreme Learning Machine
- Machine Learning Applications

# Applications

- Early diagnosis of Alzheimer disease
- Epilepsy detection and diagnosisDetection of sleep related disorders
- Classification of abnormal bio-signals like as electroencephalogram
- (EEG), electrocardiogram (ECG), etc.
- Sentiment analysis
- Abnormality detection
- Image and Speech recognition
- Pattern recognition and classification, prediction and extraction of feature data
- Optimizing solutions and reducing complexity of the problem
- Statistical Arbitrage
- Generation of novel sample
- Other applications related to machine leaning and signal processing

# PUBLICATION

All accepted papers will be published online in the Proceedings of Scopus indexed AISC series of Springer. Each accepted paper should be registered by at least one author to appear in the proceedings. The format of the manuscript is available at <a href="https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines">https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines</a> and length of the paper should not be more than 12 pages. Authors are requested to submit their Manuscripts through Easy Chair System. Click on the below mentioned URL to submit the Manuscripts. <a href="https://easychair.org/conferences/?conf=misp2019">https://easychair.org/conferences/?conf=misp2019</a>

# IMPORTANT DEADLINES

Paper submissions: <del>March 25, 2019, April 25, 2019,</del> May 25, 2019

Notification of acceptance: June 30, 2019 Camera-ready papers: July 10, 2019 Registration: July 25, 2019

