SiPML 2020

October 28-30, Yonago, Tottori, Japan

"The 6th International Workshop on Signal Processing and Machine Learning"

The workshop will bring together engineers, students , practitioners, and researchers from the fields of machine learning (ML) and signal processing (SP). The aim of the workshop is to contribute to the cross-fertilization between the research on ML methods and their application to SP to initiate collaboration between these areas. ML usually plays an important role in the transition from data storage to decision systems based on large databases of signals such as the obtained from sensor networks, internet services, or comunication systems. These systems imply developing both computational solutions and novel models.

Signals from real-world systems are usually complex such as speech, music, bio-medical, multimedia, among others. Thus, SP techniques are very useful for these type of systems to automate processing and analysis techniques to retrieve information from data storage. Topics will range from foundations for real-world systems, and processing, such as speech, language analysis, biomedicine, convergence and complexity analysis, machine learning, social networks, sparse representations, visual analytics, robust statistical methods.

Topics

- Learning theory
- Cognitive information processing
- Neural networks
- Classification and pattern recognition
- Nonlinear signal processing
- Graphical models and kernel methods
- Genomic signals and sequences

- Multichannel adaptive signal processing
- Kernel methods and graphical models
- Sparsity-aware learning
- Subspace/maniforld learning
- Bayesian and distributed learning
- Smart Grid, games, social networks
- Computational Intelligence

- Data-driven adaptive systems
- Data-driven models
- Multimodal data fusion
- Multiset data analysis
- Perceptual signal processing
- Applications (biomedical signals, biometrix, bioinformatics)

Workshop Chair

Ricardo Rodriguez Jorge, (Autonomous University of Ciudad Juarez, Mexico)
Adriana Mexicano Santoyo (Technological Institute of Ciudad Victoria, Mexico)

Program Committee *(tentative)*

Ales Prochazka, (University of Chemistry and Technology, Czech Republic)
Ezendu Ariwa, (University of Bedfordshire, United Kindom)
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Pit Pichappan, (Digital Information Research Labs, India & UK)
Salvador Cervantes Alvarez, (University of Guadalajara, Mexico)
Yao-Liang Chung, (National Taiwan Ocean University, Taiwan)

IMPORTANT DATES
Extended Submission Due: July 25, 2020 (HARD !)
Notification to Authors: August 1, 2020
Camera-Ready Papers Due: August 15, 2020

Please visit http://www.sipml.com.mx/default.html or contact ricardo.rodriguezjorge.mx at ieee.org for Submission information and additional details

Additional Information

All accepted papers will be included in the conference proceedings of Lecture Notes in Networks and Systems published by Springer. Proceedings will be sent by Springer for indexing in EI and SCOPUS. ** Indexing: The books of this series are submitted to ISI Proceedings, MetaPress, Springerlink **. Currently, the books of this series are indexed in Web of Science.

High quality papers accepted and presented at the SiPML 2020 workshop will be invited to submit their extended and revised papers to a special issue (others are pending of approval).

Submisions

Accepted papers to The 6th International Workshop on Signal Processing and Machine Learning should be original works that presents achievements related to the merge of signal processing and machine learning. Review papers and papers that discuss issues and contribute to the cross-fertilization of such areas are also welcome.

more at: **http://voyager.ce.fit.ac.jp/conf/3pgcic/2020/workshops.php**