

SiPML 2017

November 8-10, 2017, Open University of Catalonia, Barcelona, Spain

“2017 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 communication 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/manifold 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)

Jolanta Mizera-Pietraszko (Opole University, Poland)

Program Committee (*tentative*)

Ezendu Ariwa (University of Bedfordshire, United Kingdom)

Jiri Bila, (Czech Technical University in Prague, Czech Republic)

Ke Liao (University of Kansas, USA)

Mohammed Elgendi (University of British Columbia, Canada)

Nghien N. B., (Hanoi University of Industry, Vietnam)

Pit Pichappan, (Al Imam University, Saudi Arabia)

Yao-Liang Chung (National Taipei University, Taiwan)

IMPORTANT DATES

Paper Submission Due:	July 15, 2017
Notification to Authors:	August 25, 2017
Camera-Ready Papers Due:	September 10, 2017

Please visit <http://www.sipml.com.mx/default.html> or contact ricardo.jorge@uacj.mx for Submission information and additional details

Additional Information

Submissions

Accepted papers to 2017 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.