

Call for Papers and Posters

Workshop on Machine Learning Algorithms, Systems and Applications

Organized as part of the 14th IEEE International Conference on Machine Learning and Application
(ICMLA-2015)

Miami USA

December 9-11, 2015

For more information and paper submission visit:

<http://www.icmla-conference.org/icmla15/>

Many computer applications result in large volumes of data that require a set of techniques and tools to extract useful information for decision support, prediction, exploration and understanding of the phenomena governing the data sources. This workshop aims to bring together professionals, researchers, and practitioners to discuss efficient techniques, methods and tools to manage, exploit and interpret the increasing volumes of data in environments that may change continuously. The goal is to build models that are able to tackle and govern the high variability in stationary or non-stationary or complex hybrid systems. Such systems are being explored in various applications such as: medical diagnostics, robotics, business, industrial control, fault detection, quality control, surface inspection, system identification, transportation, communications, web applications, environmental monitoring, biomedical systems, decision support systems, security, and electronic services.

This workshop invites submissions with newly development from those working in areas of machine learning algorithms, systems and applications. Topics covered by this workshop include but are not limited to:

- Classification,
- Clustering,
- Data mining and machine learning techniques,
- Incremental learning methods,
- Adaptive, life-long and sequential learning,
- On-line classification and regression methods,
- Evolving structural components and systems modelling
- Incremental, evolving un-supervised methods
- Incremental/on-line Dimension reduction methods
- Concepts to address drifts and shifts in data streams (weighting, gradual forgetting etc.)
- On-line/Incremental Active and Semi-supervised learning concepts
- On-line Human-machine interaction and the incorporation of background knowledge
- Adaptive data pre-processing and knowledge discovery
- Real world applications such as:
 - Monitoring,
 - On-line quality control systems,
 - Fault detection, isolation and prognosis,
 - Very huge data bases,
 - Web applications,
 - Decision Support Systems,
 - And many more

We encourage researchers to submit full research papers (upto 8 pages) and short research papers (upto 6 pages) reporting work in progress. All accepted papers from the two types of submissions will be included in the proceedings to be published by IEEE Press.

Authors should submit papers through the Machine Learning Algorithms, Systems and Applications Workshop Track of the conference submission website. Papers must correspond to the requirements detailed in the instructions to authors. All conference submissions will be handled electronically. Detailed instructions for submitting the papers are provided on the conference home page at:

<http://www.icmla-conference.org/icmla15/>

Accepted papers must be presented by one of the authors at the conference. Do not hesitate to direct any question that you may have to the workshop organizers.

Important Dates:

Paper Submission Deadline:	August 6 th , 2015
Notification of acceptance:	September 9 th , 2015
Camera-ready papers & Pre-registration:	October 1 st , 2015
The ICMLA Conference:	December 9-11 2015

Workshop Chairs:

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Preliminary program committee members (to be confirmed):

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