Call for Papers
Machine Learning Applications in Software Engineering

Special Session

Organized as part of the 12th International Conference on Machine Learning and Applications (ICMLA-2013)
Miami, Florida, USA
December 4th – 7th, 2013

For more information, please visit:
http://www.icmla-conference.org/icmla13/

The field of Software Engineering is constantly evolving with new methodologies, technologies, applications, and processes. Machine Learning involves computer program solutions that use experience-based learning to improve performance at some task. The overlap between Machine Learning and Software Engineering has seen the development of Machine Learning applications to address various problems in Software Engineering. Some example applications include software measurement selection, defect prediction models, software reuse qualification, software requirements gathering, project management, etc. The field of Machine Learning involves a variety of techniques, from simple regression models to more advanced computational intelligence-based models, such as fuzzy logic, neural networks, evolutionary computation, and case-based reasoning. The aim of this special session is to obtain a good perspective into the current state of practice of Machine Learning applications to address important Software Engineering problems. Some topics relevant to this special session include, but are not limited to,

- Software Measurements
- Case-based Reasoning
- Software Requirements
- Artificial Neural Networks
- Project Management Decisions
- Evolutionary Computation
- Formal Methods
- Fuzzy Logic
- Software Testing
- Regression Models
- Verification and Validation
- Hybrid Intelligent Models
- Quality and Reliability Estimation
- Personnel Qualification Models
- Project Management Decisions
- Software Cost/Effort Estimation
- Web-based Software Systems
- Aspect-Oriented Software Systems
- Context-Aware Software Systems

We encourage researchers and practitioners to submit research and experience papers (6 pages). Submitted papers must not be previously published or be under consideration for publication
elsewhere. Authors must adhere to all submission procedures of ICMLA 2013, including paper formats and deadlines. All papers accepted for this special session will be published in the proceedings of ICMLA 2013. The special session papers are considered equivalent to regular papers submitted to ICMLA 2013, and they undergo the same rigorous review process. A select group of outstanding papers will be selected for publishing their expanded versions in a reputed international journal.

**Important Dates (Tentative):**
August 6th, 2013 Paper submission deadline
September 7th, 2013 Acceptance Notification
October 1st, 2013 Camera-ready paper due
October 1st, 2013 Author registration due
December 4th – 7th, 2013 Conference events

**Session General Chairs:**
Taghi Khoshgoftaar, Florida Atlantic University, Boca Raton, FL, USA (khoshgof@fau.edu)
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