

**The 15th IEEE International Conference on Machine Learning and Applications
(IEEE ICMLA'16), Anaheim, USA
18-20 December 2016
www.icmla-conference.org/icmla16**

**Special Session on
Machine Learning for Mining Software Repositories**

AIMS AND SCOPE

Recently machine learning has started to play a key role in facilitating research in mining diverse software repositories. Open source software systems are becoming ever larger, with many components available online. Available to download are not only source code, but also messages exchanged by the contributors, defect databases and new features requests. All this information amounts to gigabytes of mostly text data that is hard to analyze and summarize efficiently.

Many well-known machine learning techniques can be used to mine this information to make better decisions related to software systems maintenance, and to provide insights about software design and automate triage of defects. It is important that researchers share datasets, methods and procedures and results that can be easily reproduced.

The goal of this special session is to bring together researchers from software engineering and machine learning to exchange ideas about the current state of practice in mining software repositories. Some topics relevant to this special session include but are not limited to:

- ❖ Approaches, applications, and tools for software repository mining
- ❖ Classification, and prediction of bugs based on analysis of software repositories
- ❖ Mining code fragments
- ❖ Mining bug reports for fix-time prediction
- ❖ Mining bug reports for re-opened bug prediction
- ❖ Mining bug reports for blocking bug prediction
- ❖ Mining bug reports for severity/priority prediction
- ❖ Mining bug reports for delay prediction in integration of resolved issues into releases
- ❖ Mining bug reports for bug triaging
- ❖ Mining bug reports for duplicate bug detection
- ❖ Predictive models for project risk assessment
- ❖ Social network analysis for software repositories
- ❖ Sentiment analysis for question-answering sites such as Stack Overflow

- ❖ Recommendation systems
- ❖ Mining software licensing and copyrights
- ❖ Mining execution traces and commit logs
- ❖ Sentiment Analysis on software engineering artifacts

Submit your paper

<https://easychair.org/conferences/?conf=ssmsr2016>

The paper submission for the conference is done through EasyChair. You must create an account with EasyChair in order to submit your paper.

Papers should not exceed a maximum of 6 pages (including abstract, body, tables, figures, and references), and should be submitted as a pdf in 2-column IEEE format. Detailed instructions for submitting the papers are provided on the conference at home page.

Special Session Chairs

Alina Lazar

Youngstown State University, USA

Bonita Sharif

Youngstown State University, USA

Program Committee Members:

Daniela Raicu	DePaul University
Sofia Visa	College of Wooster
Mona Rahimi	DePaul University
Ioana Coman	State University of New York at Oswego

Important Dates:

Paper Submission Deadline	August 6th, 2016
Notification of Acceptance	September 7th, 2016
Camera-Read Papers	October 1st, 2016

If you have any question about this session, please do not hesitate to ask your question to alazar@ysu.edu