



Sep 7, 2016
Ciudad Real, Spain

PROMISE '16

The 12th International Conference on Predictive Models and Data Analytics in Software Engineering

Conference Organization

General Chair:

Ayse Bener, Ryerson University

PC Chairs:

Andriy Miransky, Ryerson University
Hongyu Zhang, Microsoft Research

Publicity Chair:

Leandro Minku, University of Leicester

Publication Chair:

Massimiliano Di Penta, University of Sannio

Local Organization Co-Chairs:

Burak Turhan, University of Oulu
Daniel Rodriguez, University of Alcalá

Keynote Speaker:

Natalia Juristo, TU Madrid

Programme Committee:

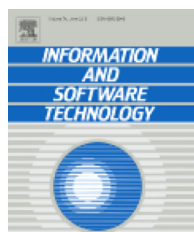
Lefteris Angelis, Aristotle Univ. of Thessaloniki
Gabriele Bavota, Free Univ. of Bozen-Bolzano
Bora Caglayan, Ryerson University
Thomas Fritz, University of Zurich
Tracy Hall, Brunel University
Rachel Harrison, Oxford Brookes Univ.
Jacky Keung, City Univ. of Hong Kong
Foutse Khomh, DGI GL École Poly. de Montréal
Ekrem Kocaguneli, Microsoft
Chris Lokan, University of New South Wales
Lech Madeyski, Wrocław Univ. of Technology
Emilia Mendes, BTH & University of Oulu
Tim Menzies, North Carolina State Univ.
Rudolf Ramler, Software Competence Center
Daniel Rodriguez, The University of Alcalá
Federica Sarro, University College London
Martin Shepperd, Brunel University
Ayse Tosun Misirli, Istanbul Technical Univ.
Stefan Wagner, University of Stuttgart
Hironori Washizaki, Waseda University
Dietmar Winkler, Vienna University of Tech.
Yang Ye, Stevens Institute of Technology
Yuming Zhou, Nanjing University, China

Important Dates:

Submission deadline: June 17th, 2016
Notification date: July 20th, 2016
Camera-ready copy: July 27th, 2016

<http://promisedata.org/2016/>

Journal Special Section:



Call for Submissions to PROMISE 2016

(Co-located with ESEM 2016)

PROMISE is an annual forum for researchers and practitioners to present, discuss and exchange ideas, results, expertise and experiences in construction and/or application of predictive models and data analytics in software engineering. Such models and analyses could be targeted at: planning, design, implementation, testing, maintenance, quality assurance, evaluation, process improvement, management, decision making, and risk assessment in software and systems development. PROMISE is distinguished from similar forums with its public data repository and focus on methodological details, providing a unique interdisciplinary venue for software engineering and data mining communities, and seeking for verifiable and repeatable experiments that are useful in practice.

Topics of Interest

Topics of interest include, but are not limited to:

Application oriented:

- predicting for cost, effort, quality, defects, business value;
- quantification and prediction of other intermediate or final properties of interest in software development regarding people, process or product aspects;
- using predictive models and data analytics in different settings, e.g. lean/agile, waterfall, distributed, community-based software development;
- dealing with changing environments in software engineering tasks;
- dealing with multiple-objectives in software engineering tasks;
- using predictive models and software data analytics in policy and decision-making.

Theory oriented:

- model construction, evaluation, sharing and reusability;
- interdisciplinary and novel approaches to predictive modelling and data analytics that contribute to the theoretical body of knowledge in software engineering;
- verifying/refuting/challenging previous theory and results;
- combinations of predictive models and search-based software engineering;
- the effectiveness of human experts vs. automated models in predictions.

Data oriented:

- contributions to the repository;
- data quality, sharing, and privacy;
- ethical issues related to data collection;
- metrics;
- tools and frameworks to support researchers and practitioners to collect data and construct models to share/repeat experiments and results.

Poster Competition

We will also have a poster competition. The poster is not mandatory, but is strongly encouraged. Posters will be judged by a panel during the conference.

Kinds of Papers

We invite all kinds of empirical studies on the topics of interest (e.g. case studies, meta-analysis, replications, experiments, simulations, surveys etc.), as well as industrial experience reports detailing the application of predictive modelling and data analytics in industrial settings. Both positive and negative results are welcome, though negative results should still be based on rigorous research and provide details on lessons learned.

Following the tradition, PROMISE 2016 will give the highest priority to studies based on publicly available datasets. It is therefore encouraged, but not mandatory, that conference attendees contribute the data used in their analysis to the on-line PROMISE data repository (<http://openscience.us/>). We also encourage authors to submit their source codes to the repository. Submissions can be of the following kinds:

- Full papers (oral presentation): papers with novel and complete results.
- Short papers (oral presentation): papers to disseminate on-going work and preliminary results for early feedback, or vision papers about the future of predictive modelling and data analytics in software engineering.
- Short paper (poster competition): papers to disseminate on-going work and preliminary results for early feedback.

Submissions

PROMISE 2016 submissions must meet the following criteria:

- be original work, not published or under review elsewhere;
- conform to the ACM SIG proceedings templates from <http://goo.gl/wE1k>
- not exceed 10 (4) pages for full (short) papers including references;
- papers should be submitted via EasyChair (please choose the paper category appropriately): <https://easychair.org/conferences/?conf=promise2016>

Accepted papers will be published in the ACM digital library.

Journal Special Section

Following the conference, the authors of two of the best manuscripts will be invited to extend their papers into full journal papers, for a Special Section of the [Information and Software Technology](#).