PROMISE '19

The 15th International Conference on Predictive Models and Data Analytics in Software Engineering

Sept 18th, 2019
Porto de Galinhas, Brazil

IMPORTANT DATES:
Abstracts due: May 31, 2019
Submissions due: June 7, 2019
Author notification: July 7, 2019
Conference Date: September 18, 2019

ORGANIZATION:
Steering Committee:
David Bowes, Lancaster University
Shane McIntosh, McGill University
Leandro Minku, Univ. of Birmingham
Andriy Miranskyy, Ryerson University
Emad Shihab, Concordia University
Ayse Tosun, Istanbul Technical University

General Chair:
Leandro Minku, Univ. of Birmingham

PC Co-chairs:
Foutse Khomh, Ecole Polytechnique de Montréal
Jean Petric, Lancaster University

Local Organization Chair:
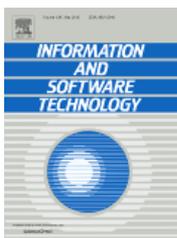Leandro Minku, Univ. of Birmingam

Proceedings Chair:
David Bowes, Lancaster University

Publicity and Social Media Chair:
Giuseppe Destefanis, Brunel University London

Journal Special Section

Web & Social Media:
http://promisedata.org/2019
https://twitter.com/promise_conf
https://www.facebook.com/promiseConf

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. PROMISE encourages researchers to publicly share their data in order to provide interdisciplinary research between the software engineering and data mining communities, and seek for verifiable and repeatable experiments that are useful in practice.

TOPICS OF INTEREST:
Application oriented: prediction of 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: data quality, sharing, and privacy; curated data sets made available for the community to use; ethical issues related to data collection and sharing; metrics; tools and frameworks to support researchers and practitioners to collect data and construct models to share/repeat experiments and results.

Validity oriented: replication and repeatability of previous work using predictive modelling and data analytics in software engineering; assessment of measurement metrics for reporting the performance of predictive models; evaluation of predictive models with industrial collaborators;

KINDS OF PAPERS:
We invite theory and 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. It is encouraged, but not mandatory, that conference attendees contribute the data used in their analysis on-line. 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.

SUBMISSIONS:
Submissions must conform to the ACM SIG proceedings templates (https://www.acm.org/publications/proceedings-template), be written in English, and be within 10(4) pages for full(short) papers, including references. Papers should be submitted via: https://easychair.org/conferences/?conf=promise19. Submissions should not be published or under review elsewhere while being considered.

This year PROMISE is adopting a **double blind** review process. For more information on how to prepare your paper for double blind review please visit http://promisedata.org/2019/

JOURNAL SPECIAL SECTION:
Following the conference, the authors of the best papers will be invited for consideration in a special section of the Information and Software Technology (IST) journal.