**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*.