PROMISE 2020

Inventing what's next in software analytics
An FSE'20 co-located event.
http://tiny.cc/promise20
Nov 8, 2020

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Welcome to the 16th International PROMISE Conference on Analytics in SE. For decades, PROMISE has lead the SE field in open science. Here, we place a high premium on work that can be repeated and/or improved and/or refuted by other researchers. Hence we focus on those conclusions that can be reached automatically, via data mining. Also, we strongly suggest that PROMISE authors share their tools and data.

Our theme for PROMISE'20 is Ethical AI. Models generated by AI-for-SE tools are assessed by their predictive performance (via accuracy, recall, etc). But groups like the IEEE, the European Union, and Microsoft now demand we assess our tools using other ethical criteria. Hence, PROMISE'20 asks:

Can we now apply and adjust our AI-for-SE tools (including predictive models) to handle ethical non-functional requirements such as inclusiveness, transparency, oversight and accountability, privacy, security, reliability, safety, diversity and fairness?

To support our PROMISE'20 theme on Ethical AI:

- We ask PROMISE'20 authors to offer one (or more) section(s) in their paper on how their technology comments on ethical non-functional requirements. For more details on thse kinds of requirements, see notes on ethics, below. This request is optional: PROMISE'20 is also a venue for "classic" PROMISE research that explores predictive modeling.
- We have invited keynote speakers to address these broader issues of AI-for-SE tools.
- We are planning a lively "fish-bowl panel" for this meeting where all participants can comment on ethics and AI-for-SE.
- This meeting will be followed by a special issue of the Empirical Software Engineering journal, focusing on the issues of this conference.

KEYNOTE SPEAKERS

Rachel Bellamy
IBM Research, NY: *"Fair AI in Practice"*

Lionel Briand
U.Ottawa, Canada: *"Natural Lanaguage and Software Requirements"*

- Submission: June 30, 2020
- Notification: July 30
- Camera ready: Aug 30
- Meeting: Nov 8

June
30
Tuesday

PROGRAM CHAIRS

Tim Menzies : NC State, USA
Mel Nagappan : U.Waterloo, Canada

Proceedings chair
David Bowes : U.Central Lancashire, UK

Program Committee
TBD

SPECIAL ISSUE (AT EMSE)

Inventing the next generation of software analytics.

This special issue of the Empirical Software Engineering Journal will ask authors to comment on the success and failings of software analytics over the last 20 years and will ask "what, and how can we do it better in future?". It is encouraged, but not mandatory that authors explore the ethical issues raised in our CFP.

The special issue will have the same guest editors as the co-PC chairs of this conferences. Where possible, that special issue will also try to use the same reviewers as PROMISE'20. The special issue will be open to the entire SE community.