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Call for Papers

Special Issue on Software Engineering Methods, Tools and Products Improvement and Evaluation

AIM AND SCOPE

Software Engineering plays an increasingly critical role in our daily lives, whether the developed software is in the computer applications we use in a wide range of devices (e.g., PCs, tablets, smartphones), the vehicles we drive, the air planes we fly in, or the medical equipment we require (e.g., pacemakers).

The increasing inherent complexity of software systems and market competitiveness pose real challenges that need to be addressed by the Software Engineering processes, methods and tools, while the proposed methods, related artefacts and tools, as well as delivered products need to be evaluated. Software engineers continuously struggle to improve their software engineering methods in order to deliver high quality software products. As the software products built nowadays are bigger and bigger, bug free and quickly developed software may seem like an unattainable goal. Nevertheless, researchers and practitioners are obliged (and this is our aim) to improve and evaluate software engineering methods and delivered products.

According to Gartner, the size of the worldwide software industry 5 years ago (in 2013) was over US\$400 billion [1]. Hence, good recommendations how to improve software engineering processes and how to deliver high quality software are of huge (not only, but also monetary) value. The more so that problems with the software quality are widespread, while at the same time our life depends on software more and more every year.

TOPICS OF INTEREST

We solicit high quality research papers in Software Engineering (including, e.g., new solutions, quantitative or qualitative primary studies, but also systematic reviews [2] and meta-analyzes [3]). In particular, we encourage submissions related (but not limited) to the following topics:

- New software engineering processes, methods or tools
- Software engineering processes, methods, tools, artefacts or products improvement (wrt. quality, development speed, performance etc.)
- Software engineering processes, methods, tools, artefacts or products evaluation.

Software engineering research presenting new ideas, reviewing and/or synthesizing the most recent state of the art, conducted in real world setting or in collaboration with business partners, backed by developed tools or collected data, as well as borrowing from the reproducible research concepts [4] is of additional interest.

SUBMISSION AND IMPORTANT DATES

All submissions should be sent by e-mail to the *Foundations of Computing and Decision Sciences* journal office (<mailto:fcds@cs.put.poznan.pl>). Upon submitting your paper please specify that the paper is a contribution for "Special Issue on Software Engineering". Before submitting a manuscript to the journal be sure to read carefully *Guide for Authors* (<http://fcds.cs.put.poznan.pl/FCDS/Submissions.aspx>).

We accept any of the following formats: Portable Document Format (.pdf), Latex (.tex) and MS Word (.doc,.docx). Prospective authors may consider using the detailed FCDS guidelines (http://fcds.cs.put.poznan.pl/FCDS/Files/FCDS_Guidelines.pdf) for camera ready versions of papers. Otherwise, the authors should follow some minimal requirements:

- Manuscripts must be written in ENGLISH.
- The essential contents of each paper should be outlined in an ABSTRACT of about 100 words. It should not contain references.
- Sections and sub-sections should be numbered with Arabic numerals.
- Author's mailing address should be put as a footnote on the first page of manuscript.
- Illustrations, photographs, tables etc. should be readable.
- References in the text should be numbered in square brackets and listed in an alphabetical order at the end of the paper. They should be written in English (the language of the original should be indicated in brackets after the title if it is not English).

Authors of accepted papers are obliged to deliver camera-ready versions of their papers formatted according to the FCDS guidelines. Please download the MS Word template (<http://fcds.cs.put.poznan.pl/FCDS/Files/FCDSCameraReady.zip>) or Latex style file (<http://fcds.cs.put.poznan.pl/FCDS/Files/fcfs.zip>) for camera-ready papers. Sample article source in Latex is also available at <http://fcds.cs.put.poznan.pl/FCDS/Files/Warp.zip>.

All contributions must not have been previously published or be under consideration for publication elsewhere. A submission extended from a previous conference version must have about 40% or more new material.

Tentative Timeline:

Submission deadline: July 4, 2018

Notification of first decision: September 10, 2018

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Poland

Mirosław Ochodek    Scopus[®] 
Poznan University of Technology / University of Gothenburg
Poland / Sweden

Email:

<mailto:fcds@cs.put.poznan.pl>

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REFERENCES

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- [4] Lech Madeyski and Barbara Kitchenham. Would wider adoption of reproducible research be beneficial for empirical software engineering research? *Journal of Intelligent & Fuzzy Systems*, 32:1509–1521, 2017.