

Special Issue on Software Engineering in Practice

Call for Papers

The ever increasing complexity of software and rapidly changing development environments continues to drive the evolution of new technologies, techniques, and tools. This special issue, Software Engineering in Practice, is intended to provide the software engineering community with a valuable collection of current, high quality research articles that explore topics driven by real problems in industry. The issue is inspired by the upcoming ICSE Software Engineering in Practice Track (ICSE SEIP 2018)¹, which is part of the Industry Program at the 40th International Conference on Software Engineering². ICSE SEIP 2018 provides a premier venue for researchers and practitioners to discuss innovations and solutions to concrete software engineering problems.

In this spirit, we welcome submissions that present novel and innovative ideas that broadly span the software engineering discipline; ideas that provide solutions for real problems encountered by practitioners. Submissions need to be original manuscripts that have not been previously published and are also not under consideration for publication elsewhere. We encourage submissions of extended work (papers and talks) accepted for the ICSE SEIP 2018, where the extensions include at least 30% additional, novel results.

Given the wide range of issues faced by software engineers in practice, the suggested topics of interest reflect this breadth. The topics include but are not limited to:

- Activities to develop, evolve, and maintain software systems
 - Requirements engineering, architecture, component design, validation and verification
 - Configuration management, deployment, traceability
- AI and SE
 - search-based software engineering
- Data analytics and SE
 - Mining repositories, predictive analytics
- Domains specific systems
 - Automotive, finance, healthcare, social media, telecommunications, transportation
- Emerging technologies, frameworks, platforms, and tools
 - Blockchain, cloud, IoT, middleware, APIs
- Human factors and social aspects in software engineering
 - crowd sourced software engineering, interactive design
- Kinds of systems
 - Aps, autonomic and (self-)adaptive, cyber physical, embedded, mobile, parallel/distributed/concurrent, recommender, ubiquitous/pervasive software
- Methodologies
 - Agile, continuous development, DevOps, green and sustainable
- Model driven SE
- Quality attributes
 - availability, reliability, performance, scalability, security, usability, user experience
- Re-use
 - Component-based, services, software product lines

¹ <https://www.icse2018.org/track/icse-2018-Software-Engineering-in-Practice>

² <https://www.icse2018.org/home>

Special Issue Paper Submission

Authors may choose to submit manuscripts in the following categories:

- experience report
- short communication, or
- extended conference

These three categories and manuscript style requirements (e.g., formatting) are described in the *Author Guidelines*, available on the Wiley Online Library Journal of Software: Practice and Experience here: [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1097-024X/homepage/ForAuthors.html](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-024X/homepage/ForAuthors.html).

If you are submitting an extended version of an already published conference paper, you must submit supplementary material including a cover letter/document describing the additional, novel results as well as the original work published (e.g., conference paper). Otherwise, the submission will be desk-rejected without being reviewed. Reviewers will not have access to the supplementary material.

The submission site is available here: <https://mc.manuscriptcentral.com/spe>. While submitting paper to this issue, please select “**Special Issue – Software Engineering in Practice**” in the submission system.

All submissions will undergo a double blind peer review process. The submissions must omit the author names, affiliations, acknowledgements; in addition URLs, product/project names that may disclose identity must be omitted or disguised.

Regular Issue Submission

If you have a paper on software engineering in practice that does not match the requirements of the Special Issue, we encourage you to submit it as a regular paper to *Software: Practice and Experience*.

Important Dates

Submission: May 15, 2018

First Notification: June 30, 2018

Revision due: August 30, 2018

Notification of final acceptance: September 30, 2018

Final revised paper due: October 15, 2018

Guest Editors

Jan Bosch

Chalmers University of Technology, Sweden

E-mail: jan.bosch@chalmers.se

Kendra Cooper

Independent Scholar, Canada

E-mail: kendra.m.cooper@gmail.com

Frances Paulisch

Siemens Healthineers, Germany

E-mail: frances.paulisch@siemens-healthineers.com