Call for Papers — ASEJ Special Issue on "Automated Software Engineering for Mobile Applications"

Editors of the Special Issue
John Grundy (Monash University)
Chunyang Chen (Monash University)
Li Li (Monash University)
Xin Xia (Monash University)

Description of the Special Issue
Due to the portability and convenience of mobile devices, mobile apps have surpassed traditional desktop applications as the primary way of accessing the Internet [1]. Many users heavily depend on their smartphones for daily tasks such as reading, shopping, paying and chatting through mobile apps. Different from traditional desktop applications, mobile apps are typically developed under time-to-market pressure and face fierce competition --- over 3.8 million Android apps and 2 million iPhone apps are striving to gain users on Google Play and the Apple App Store, the two primary mobile app markets [2]. Developers need more effective and efficient app development techniques and tools leveraging Automated Software Engineering.

This special issue of the Automated Software Engineering journal focuses on software engineering research and practice supporting any aspects of the automation of mobile app development. We seek innovative papers that address requirements, analysis, generation, maintenance, evolution, testing or any other aspects of automatic development of mobile apps. Papers should describe new or improved ways to handle these aspects or address them in a more unified manner, discussing benefits, limitations, and costs of provided solutions.

Authors should be clear in their paper how their approach, solution, or technology is specific to the mobile context, compared to more traditional software engineering contexts. With “mobile apps” we refer to applications that work on mobile devices, thus, including all the possible alternatives of wearable devices (e.g., smart watches).

Submission Topics
Topics of interest include but are not limited to, challenges, solutions, and innovations for automated software engineering for mobile apps with respect to
- App analysis
- Models for generating apps
- App testing & debugging & repair
- App localization & globalization
- App review analytics
- App store mining
- UX in apps
- App deployment
- Maintenance of apps
- App reliability
- Resource utilization
• App security & privacy
• App migration across platforms
• Addressing device and platform fragmentation
• Industrial case studies of automated software engineering for mobile apps, whether positive or negative outcomes

Submissions

Submissions should conform to the Automated Software Engineering journal format.

Submissions should be submitted via the journal submission system at:

https://www.editorialmanager.com/ause

And select the special issue tag Special Issue on Automated Software Engineering for Mobile Applications

Important Dates

Full submission: 1st October 2019

Reviews to authors: 1st December 2019

Revision due: 1st February 2020

Target publication date: late-2020

References:
[1] Mobile Internet use passes desktop for the first time

[2] Number of apps available in leading app stores as of 1st quarter