

Call for Papers

=====

The third International Workshop on Software Development Lifecycle for Mobile (DeMobile 2015)

(<http://sysrun.haifa.il.ibm.com/hrl/demobile2015/>)

Monday August 31 BERGAMO, ITALY

Co-located with the joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2015) BERGAMO, ITALY, August 31 – September 4

<http://esec-fse15.dei.polimi.it/index.html>

=====

KEYNOTE SPEAKERS:

- - - - -

Our excellent keynotes will be given by
Professor Mark Harman from University College London, United Kingdom, on the topic “App Store Mining and Analysis”
and

Dr. Yael Dubinsky from IBM research Haifa, Israel, on the topic “The Smart Mobile Field Engineer: Concepts and Applications”

INTRODUCTION:

- - - - -

Mobile application usage and development is experiencing exponential growth. According to Gartner, by 2016 more than 300 billion applications will be downloaded annually. The mobile domain presents new challenges to software engineering1. Mobile platforms are rapidly changing, including diverse capabilities as GPS, sensors, and input modes. Applications must be omni-channel and work on all platforms.

Activated on mobile platforms, modern applications must be elastic and scale on demand according to the hardware abilities. Applications often need to support and use third-party services. Therefore, during development, security and authorization processes for the dataflow must be applied. Bring your own device (BYOD) policies bring new security data leaks challenges.

Developing such applications requires suitable practices and tools e.g., architecture techniques that relate to the complexity at hand; improved refactoring tools for hybrid applications using dynamic languages and polyglot development and applications; and testing techniques for applications that run on different devices. This workshop aims at establishing a community of researchers and practitioners to share their work and lead further research in the mobile development area.

GOALS OF THE WORKSHOP:

- - - - -

The workshop has several goals. First, we want to develop and create a vibrant research community of researchers and practitioners for sharing work and leading further research in the area of mobile software development. Second, we want to identify the most important research problems in the mobile application development space.

The workshop also has a set of specific technical goals:

- * Investigating new directions of model-driven development in the context of mobile software development
- * Examining the lifecycle of mobile software development and how it relates to the software engineering lifecycle
- * Exploring and evaluating existing techniques, patterns, and best practices of mobile software development
- * Bringing together people from both academia and industry to talk and learn about real-world problems facing mobile software engineering

TOPICS:

- - - -

The topics include, but are not limited to:

- * Mobile development environments and tools
- * Mobile testing
- * Agile development for mobile applications
- * Empirical studies and metrics
- * Maintenance and evolution
- * Mobile patterns, frameworks, and product lines
- * Mobile software refactoring, restructuring, and renovation
- * Mobile program transformation and optimization
- * Practice and experience reports
- * Management of mobile applications
- * User experience of mobile applications
- * Hybrid versus native applications
- * Model-driven development for mobile
- * Application security
- * Mobile operating system and middleware security
- * Secure application development methodologies
- * Cloud support for mobile security
- * Static and dynamic analysis of mobile applications
- * Mobile optimization debugging techniques and tools
- * Research challenges in mobile software engineering

SUBMISSION GUIDELINES:

- - - - -

We solicit contributions of three types:

1. Research papers up to 8 pages that describe original work in the area of mobile software engineering.
2. Short papers up to 4 pages of emerging ideas and on research in progress.
3. Extended abstracts up to 2 pages on in-practice experience.

Your paper must conform to the ACM format (<http://www.acm.org/sigs/>)

publications/proceedings-templates).
Submit your paper in Adobe PDF via EasyChair
(<https://easychair.org/conferences/?conf=demobile2015>).

IMPORTANT DATES:

- - - - -

- * Papers Submission: Sunday, June 07, 2015
- * Papers Notification: Monday, June 29, 2015
- * Papers Camera-Ready: Wednesday, July 15 2015

ORGANIZERS:

- - - - -

Aharon Abadi, IBM Research – Haifa, Israel
Shah Rukh Humayoun, University of Kaiserslautern, Germany
Henry Muccini, University of L'Aquila, Italy

Contacting email: demobile2015@easychair.org