

Software Engineering (SE) Track Technical Program

The SE-Track of SAC 2016 will be held on Wednesday, April 6 and Thursday, April 7, 2016.

SE-1: WED 2:20-4:00 pm (@Aula E)

Session Chair: Byungjeong Lee, University of Seoul, Korea

- Toward Improving Ability to Repair Bugs Automatically --A Patch Candidate Location Mechanism Using Code Similarity –
Haruki Yokoyama (*Osaka University, Japan*), *Yoshiki Higo, Keisuke Hotta, Takafumi Ohta, Kozo Okano, Shinji Kusumoto*
- A Methodology Towards the Adaptization of Legacy Systems using Agent-oriented Software Engineering
Francois Wavresky (*Ajou University/Humax, Korea*), *Seok-Won Lee*
- Automated Memory Leak Fixing on Value-Flow Slices for C Programs
Hua Yan (*University of New South Wales, Australia*), *Yulei Sui, Shiping Chen, Jingling Xue*
- A Meta-Learning Framework for Algorithm Recommendation in Software Fault Prediction
Silvia Nunes das Dôres (*Pontifical Catholic University of Rio Grande do Sul, Brazil*), *Luciano Alves, Duncan D. Ruiz, Rodrigo C. Barros*
- A Systematic Mapping Study on Mining Software Repositories
Mário A. Farias, Renato Novais, Methanias Colaço Jr, Luís Carvalho, Manoel Mendonça, Rodrigo Oliveira Spínola, presented by Thiago Mendes (Federal University of Bahia (UFBA), Brazil)

SE-2: WED 4:30-6:10 pm (@Aula E)

Session Chair: Hermann Kaindl, TU Wien in Vienna, Austria

- Simple Function Points for Effort Estimation: a Further Assessment
Filomena Ferrucci, Carmine Gravino, Luigi Lavazza (University of Insubria at Varese, Italy)
- Evaluating and Comparing Complexity, Coupling and a New Proposed Set of Coupling Metrics in Cross-Project Vulnerability Prediction
Sara Moshtari, Ashkan Sami (Shiraz University, Iran)
- An Empirical Study on the Effect of Programming Languages on Productivity
Luigi Lavazza, Sandro Morasca, Davide Tosi (Università degli Studi dell'Insubria (Varese)/Vodafone, Italy)
- Integrated Analysis of Exception Flows and Handler Actions in Java Libraries: An Empirical Study
Demóstenes Sena (*Federal Institute of Education, Science and Technology of Rio Grande do Norte-Brazil*), *Roberta Coelho, Uira Kulesza*
- Checking Linearizability with Fine-Grained Traces
Zhenyue Long (*China Southern Power Grid, China*), *Yu Zhang*

SE-3: THU 11:10 am -12:50 pm (@Galilei)

Session Chair: Matthew Patrick, University of Cambridge, UK

- Is Code Cloning in Games Really Different?
Farouq Al-omari (*University of Saskatchewan, Canada*), *Chanchal K. Roy*
- Similarity management of 'cloned and owned' variants, Thomas Schmorleiz
Ralf Lämmel (*University of Koblenz-Landau, Germany*)
- Architectural Clones: Toward Tactical Code Reuse
Daniel E. Krutz (*Rochester Institute of Technology, USA*), *Mehdi Mirakhorli*

- Improving the Quality of Code Snippets in Stack Overflow
*Mohammad Reza Tavakoli, Abbas Heydarnoori, **Mohammad Ghafari** (University of Bern, Switzerland)*
- Software-specific Part-of-Speech Tagging: An Experimental Study on Stack Overflow
*Deheng Ye, Zhenchang Xing, **Jing Li** (Nanyang Technological University (NTU), Singapore), Nachiket Kapre*

SE-4: THU 2:20-4:00 pm (@Galilei)

Session Chair: Luigi Lavazza, University of Insubria at Varese, Italy

- Reverse Engineering: a European IPR perspective
*Paolo Ciancarini, **Daniel Russo** (University of Bologna, Italy), Alberto Sillitti, Giancarlo Succi*
- Automated Procedure Clustering for Reverse Engineering PL/SQL Programs
***Metin Altinisik** (Turkcell, Turkey), Hasan Sözer*
- Model-based Replay Testing for Event-driven Software
***Shakaiba Majeed** (Hangyang University, Korea), Minsoo Ryu*
- Software Testing in a Scientific Research Group
***Matthew Patrick** (University of Cambridge, UK), James Elderfield, Richard O.J.H. Stutt, Andrew Rice, Christopher A. Gilligan*
- Students' and Professionals' Perceptions of Test-driven Development: A Focus Group Study
*Giuseppe Scanniello, **Simone Romano** (University of Basilicata, Italy), Davide Fucci, Burak Turhan, Natalia Juristo*

SE-5: THU 4:30-6:10 pm (@Galilei)

Session Chair: Eunjee Song, Baylor University, USA

- BPMiner: Mining Developers' Behavior Patterns from Screen-Captured Task Videos
***Jing Li** (Nanyang Technological University, Singapore), Lingfeng Bao, Zhenchang Xing, Xinyu Wang, Bo Zhou*
- Optimization of Feature Interactions for Automotive Combustion Engines
*Dominik Wagner, **Hermann Kaindl** (TU Wien in Vienna, Austria), Sven Dominka, Michael Dübner*
- Integrating Feature-based Implementation Approaches using a Common Graph-based Representation
***Benjamin Behringer** (University of Luxembourg, Luxembourg), Steffen Rothkugel*
- Towards a Generic Framework for Automating Extensive Analysis of Android Applications
***Li Li** (University of Luxembourg, Luxembourg), Daoyuan Li, Alexandre Bartel, Tegawendé F. Bissyandé, Jacques Klein, Yves Le Traon*
- EMF-REST: Generation of RESTful APIs from Models
***Hamza Ed-douibi** (UOC: Open University of Catalonia in Barcelona, Spain), Javier Luis Cánovas Izquierdo, Abel Gómez, Massimo Tisi, Jordi Cabot*