2015 IEEE/ACM 2nd International Workshop on Software Engineering Research and Industrial Practice

(SER&IP 2015)

Florence, Italy
17 May 2015
Second International Workshop on Software Engineering Research and Industrial Practice (SER&IP 2015)

Table of Contents

Message from the Chairs ........................................................................................................................................ vii
Committees ....................................................................................................................................................... viii
Sponsors and Supporters ................................................................................................................................. ix

Keynotes

Accelerating Change in the Nordic Software Intensive Industry: Keynote Software Engineering Research and Industrial Practice Workshop ........................................................................................................ 1
Jan Bosch — Chalmers University of Technology, Sweden

Bridging the Research-Industry Gap: The Case for Domain Modeling .............................................................. 3
Pamela Zave — AT&T Labs Research, USA

Regular Papers

Reflections on Software Engineering Research Collaborations: From Ottawa to the Software Engineering Institute to Silicon Valley ................................................................................................................... 5
Steven Fraser — Innoxe, USA

Integration of SE Research and Industry: Reflections, Theories and Illustrative Example ................................ 11
Aiko Yamashita — Mesan, Norway

Software Engineering View of a Large-Scale System Failure and the Following Lawsuit ............................ 18
Tetsuo Tamai — Hosei University, Japan

Prioritizing Correction of Static Analysis Infringements for Cost-Effective Code Sanitization ....................... 25
Gabriella Carrozza, Marcello Cinque, Ugo Giordano, Roberto Pietrantuono, Stefano Russo
— University of Naples Federico II, Italy; Selex ES, Italy; Critiware, Italy

Patterns of Cooperative Technology Development and Transfer for Software-Engineering-in-the-Large ................................................................................................................................. 32
Carlos Henrique C. Duarte — BNDES, Brazil

A Practical Application of UPPAAL and DTRON for Runtime Verification .................................................. 39
Dragos Truscan, Tanwir Ahmad, Faezeh Siavashi, Pekka Tuuttila
— Åbo Akademi University, Finland; Nokia Siemens, Finland
Short Papers

Transferring Software Engineering Research into Industry: The Stevens Way ........................................... 46
   Linda Laird, Ye Yang — Stevens Institute of Technology, USA

Principles and a Process for Successful Industry Cooperation—The Case of TUM and Munich Re .......................................................... 50
   Maximilian Junker, Manfred Broy, Benedikt Hauptmann, Wolfgang Böhm, Henning Femmer,
   Sebastian Eder, Elmar Juergens, Rainer Janßen, Rudolf Vaas
   — Technische Universität München, Germany; CQSE, Germany; Munich Re, Germany

Bridging the Valley of Death: A Success Story on Danish Funding Schemes
Paving a Path from Technology Readiness Level 1 to 9 ............................................................................. 54
   Søren Debois, Thomas Hildebrandt, Morten Marquard, Tijs Slaats
   — IT University of Copenhagen, Denmark; Exformatics, Denmark

The Iceberg Effect: On Technology Transfer from Research to Practice ............................................. 58
   Bran Selić — Malina Software Corp, Canada

Predicting Software Field Reliability ........................................................................................................ 62
   Pete Rotella, Sunita Chulani, Devesh Goyal — Cisco Systems, USA

Author Index .............................................................................................................................................. 66