

# MSR 2007

## 4th International Workshop on Mining Software Repositories

May 19 - 20, 2007  
TECHNICAL PROGRAM

### Saturday, May 19th 2007

09:00 - 10:30	<b>SESSION I - Prologue</b>	[Chairs: Harald Gall & Michele Lanza]
Introduction	<i>"MSR 2007 Introduction"</i> Harald Gall, Michele Lanza	
Keynote	<i>"Learning from Software"</i> Andreas Zeller	
10:30 - 11:00	<b>Coffee Break</b>	
11:00 - 12:30	<b>SESSION II - Bugs</b>	[Chair: Massimiliano di Penta]
Full Paper	<i>"How Long will it Take to Fix This Bug?"</i> Cathrin Weiss, Rahul Premraj, Thomas Zimmermann, Andreas Zeller	
Full Paper	<i>"Determining Implementation Expertise from Bug Reports"</i> John Anvik, Gail C. Murphy	
Full Paper	<i>"Defect Data Analysis based on Extended Association Rule Mining"</i> Shuji Morisaki, Akito Monden, Tomoko Matsumura, Haruaki Tamada, Ken-ichi Matsumoto	
Short Paper	<i>"Spam Filter Based Approach for Finding Fault-Prone Software Modules"</i> Osamu Mizuno, Shiro Ikami, Shuya Nakaichi, Tohru Kikuno	
	<b>Discussion</b>	
12:30 - 14:00	<b>Lunch</b>	
14:00 - 15:30	<b>SESSION III - Teams</b>	[Chair: Mike Godfrey]
Full Paper	<i>"Recommending Emergent Teams"</i> Shawn Minto, Gail C. Murphy	
Full Paper	<i>"Open Borders? Immigration in Open Source Projects"</i> Christian Alma Bird, Alex Gourley, Premkumar Devanbu, Anand Swaminathan, Greta Hsu	
Full Paper	<i>"Correlating Social Interactions to Release History During Software Evolution"</i> Olga Baysal, Andrew J. Malton	
Short Paper	<i>"Mining CVS Repositories to Understand Open-Source Project Developer Roles"</i> Liguo Yu, Srin Ramaswamy	
	<b>Discussion</b>	
15:30 - 16:00	<b>Coffee Break</b>	
16:00 - 17:30	<b>SESSION IV - Mining</b>	[Chair: Andreas Zeller]
Full Paper	<i>"Visual Data Mining in Software Archives to Detect How Developers Work Together"</i> Peter Weissgerber, Mathias Pohl, Michael Burch	
Full Paper	<i>"Mining Software Repositories using iSPARQL"</i> Christoph Kiefer, Abraham Bernstein, Jonas Tappolet	
Short Paper	<i>"Mining Workspace Updates in CVS"</i> Thomas Zimmermann	
Short Paper	<i>"Finding Relevant Applications For Prototyping"</i> Mark Grechanik, Kevin M Conroy, Katharina A Probst	
Short Paper	<i>"Lightweight Risk Mitigation for Software Development Projects Using Repository Mining"</i> Stephen P Masticola	
	<b>Discussion</b>	
19:00 - Open	<b>Workshop Dinner</b>	

## Sunday, May 20th 2007

09:15 - 10:30	<b>SESSION V - Changes</b>	<b>[Chair: Andrian Marcus]</b>
Full Paper	<i>"Identifying Changed Source Code Lines from Version Repositories"</i> Gerardo Canfora, Luigi Cerulo, Massimiliano Di Penta	
Full Paper	<i>"Mining a Change-based Software Repository"</i> Romain Robbes	
Short Paper	<i>"Studying Versioning Information to Understand Inheritance Hierarchy Changes"</i> Filip Van Rysselberghe, Serge Demeyer	
Short Paper	<i>"Combining Single-Version and Evolutionary Dependencies for Software-Change Prediction"</i> Huzefa Kagdi, Jonathan I. Maletic	
Short Paper	<i>"Evaluating the harmfulness of cloning: a change based experiment"</i> Angela Lozano, Michel Wermelinger, Bashar Nuseibeh	
	<b>Discussion</b>	
10:30 - 11:00	<b>Coffee Break</b>	
11:00 - 12:30	<b>SESSION VI - Patterns &amp; Models</b>	<b>[Chair: Jim Whitehead]</b>
Full Paper	<i>"Release Pattern Discovery via Partitioning: Methodology and Case Study"</i> Abram Hindle, Michael W. Godfrey, Richard C. Holt	
Full Paper	<i>"Comparing Approaches to Mining Source Code for Call-Usage Patterns"</i> Huzefa Kagdi, Michael L. Collard, Jonathan I. Maletic	
Full Paper	<i>"Towards a theoretical model for software growth"</i> Israel Herraiz, Jesus M. Gonzalez-Barahona, Gregorio Robles	
Short Paper	<i>"Analysis of the Linux Kernel Evolution Using Code Clone Coverage"</i> Simone Livieri, Yoshiki Higo, Makoto Matsushita, Katsuro Inoue	
	<b>Discussion</b>	
12:30 - 14:00	<b>Lunch</b>	
14:00 - 15:30	<b>SESSION VII - Developers, Developers, Developers</b>	<b>[Chair: Katsuro Inoue]</b>
Full Paper	<i>"What Can OSS Mailing Lists Tell Us? A Preliminary Psychometric Text Analysis of the Apache Developer Mailing List"</i> Peter C. Rigby, Ahmed E. Hassan	
Full Paper	<i>"Using software distributions to understand the relationship among free and open source software projects"</i> Daniel M. German	
Short Paper	<i>"Using Software Repositories to Investigate Socio-technical Congruence in Development Projects"</i> Giuseppe Valetto, Mary Helander, Kate Ehrlich, Sunita Chulani, Mark Wegman, Clay Williams	
Short Paper	<i>"Detecting Patch Submission and Acceptance in OSS Projects"</i> Christian Bird, Alex Gourley, Premkumar Devanbu	
Short Paper	<i>"Prioritizing Warnings by Analyzing Software History"</i> Sunghun Kim, Michael D. Ernst	
	<b>Discussion</b>	
15:30 - 16:00	<b>Coffee Break</b>	
16:00 - 17:30	<b>SESSION VIII - Mining Challenge</b>	<b>[Chair: Thomas Zimmermann]</b>
Challenge	<i>"Impact of the Creation of the Mozilla Foundation in the Activity of Developers"</i> Jesus M. Gonzalez-Barahona, Gregorio Robles, Israel Herraiz	
Challenge	<i>"Predicting Eclipse Bug Lifetimes"</i> Lucas Panjer	
Challenge	<i>"Mining Eclipse Developer Contributions via Author-Topic Models"</i> Erik Linstead, Paul Rigor, Sushil Bajracharya, Cristina Lopes, Pierre Baldi	
	<i>Prediction results</i> Thomas Zimmermann	
	<b>Discussion</b>	
17:30 - 17:45	<b>CLOSING SESSION</b>	<b>[Chairs: Harald Gall, Michele Lanza, Thomas Zimmermann]</b>