



16th Asia-Pacific Software Engineering Conference (APSEC 2009)

Monday, 30 November 2009: APSEC 2009 Workshop Day & SEPoW 2009			
Venue: Eureka Complex, Universiti Sains Malaysia, Penang			
8:30-9:00	Registration		
9:00-9:30	Welcome Speech		
Time/Venue	Auditorium	Room I	Room II
9:30-12:30	SEPoW 2009 (Panel I)	SEPoW 2009 (Panel II)	Industry-Academia-Research Discussion/Networking
12:30-14:30	Lunch		
14:30-16:30	Workshop I: Evidence-Based Software Engineering D. Budgen <i>et al.</i> <i>Durham University, UK</i>	Tutorial I: Software Product Line in Small-to-Medium Size Companies S. Jarzabek <i>National University of Singapore</i>	Workshop II: T-Way Strategies: Hardware and Software Testing K. Z. Zamli and M. I. Younis <i>Universiti Sains Malaysia</i>
16:30-17:00	Tea Break and Networking		
17:00-18:00	Continue Workshops/Tutorial		
18:00-19:30	Sightseeing: University in the Garden		
19:30-22:30	Welcome Reception		
Tuesday, 1 December 2009: Conference Day I			
Venue: Grand Ballroom, Bayview Beach Resort, Batu Ferringhi, Penang			
8:30-9:00	Registration		
9:00-9:30	Opening Ceremony		
9:30-10:30	Keynote Speech I: Research Challenges for Institutionalizing Software Product Lines Prof. Jorge L. Díaz-Herrera <i>Rochester Institute of Technology in Rochester, New York, USA</i>		
10:30-11:00	Tea Break		
Time/Venue	Room I	Room II	Room III
11:00-12:30	Session 1A: Metrics and Measurement I (P001, P283, P230)	Session 1B: Software Design I (P266, P152, P051)	Session 1C: Verification and Validation I (P082, P058, P037)
12:30-14:30	Lunch		
14:30-16:30	Session 2A: Requirements Engineering I (P043, P174, P194, P137)	Session 2B: Software Architecture (P179, P167, P245, P165)	Session 2C: Software Testing I (P183, P169, P024, P158)
16:30-17:00	Tea Break		
17:00-18:00	Session 3A: Metrics and Measurement II (P092, P226)	Session 3B: Software Design II (P028, P215)	Session 3C: Aspect Oriented Programming (P044, P241)
Wednesday, 2 December 2009: Conference Day II			
9:00 – 10:00	Keynote Speech II: Symbolic Tracing for Program Reasoning Prof. Joxan Jaffar <i>National University of Singapore</i>		
10:00-10:30	Tea Break		
10:30-12:30	Session 4A: Requirements Engineering II (P123, P90, P68, P243)	Session 4B: Program Analysis (P109, P084, P049, P224)	Session 4C: Software Testing II (P156, P031, P121, P277)
12:30-14:30	Lunch		
14:30-19:00	Excursion: Round Island		
19:30-22:30	Dinner		
Thursday, 3 December 2009: Conference Day III			
9:00-10:00	Keynote Speech III: Paradox between Software Development Productivity and Success Rate: Are we striking the right balance? Pathak Nirbhaya <i>Motorola Technology Sdn. Bhd., Penang, Malaysia</i>		
10:00-10:30	Tea Break		
10:30-12:30	Session 5A: Requirements Engineering III (P54, P285, P271, P074)	Session 5B: Software Maintenance (P270, P057, P268, P160)	Session 5C: Software Testing III (P096, P234, P228, P254)
12:30-14:00	Lunch		
14:00-16:00	Session 6A: Project Management (P172, P182, P204, P045)	Session 6B: Software Process (P244, P290, P205, P292)	Session 6C: Verification and Validation II (P138, P029, P136, P035)
16:00-16:30	Closing		
16:30-17:00	Tea Break		

Note: The programme is subject to change.

LIST OF PAPERS

Session 1A: Metrics and Measurement I

P001	Improving the Accuracy of Software Effort Estimation based on Multiple Least Square Regression Models by Estimation Error-based Data Partitioning <i>Y-S Seo, K-A Yoon, and D-H Bae</i> (Korea)
P283	Hierarchical Quality Assessment Model for Large-scale Object-Oriented System <i>J. Hwa, S. Lee, and Y. Kwon</i> (Korea)
P230	On the Conversion between the Sizes of Software Products in the Life Cycle <i>C. Gencel, R. Heldal, and K. Lind</i> (Sweden)

Session 1B: Software Design I

P266	Investigating the Effect of Refactoring on Software Testing Effort <i>K. Elish and M. Alshayeb</i> (Saudi Arabia)
P152	Extracting High-Level Functional Design from Software Requirements <i>V. S. Sharma, S. Sarkar, K. Verma, A. Panayappan, and A. Kass</i> (India and USA)
P051	Identifying Fragments to Be Extracted from Long Methods <i>L. Yang, H. Liu, and Z. Niu</i> (China)

Session 1C: Verification and Validation I

P082	A graph based approach to detecting causes of implied scenarios under the asynchronous and synchronous communication styles <i>I-G Song, S-U Jeon, and D-H Bae</i> (Korea)
P058	Extracting Environmental Constraints to Make Reactive System Specifications Realizable <i>S. Hagihara, Y. Kitamura, M. Shimakawa, and N. Yonezaki</i> (Japan)
P037	Monitoring Web Service Composition with Universal Modal Sequence Diagram <i>W. Li and Z. Wang</i> (China)

Session 2A: Requirements Engineering I

P043	Critical Barriers for Offshore Software Development Outsourcing Vendors: A Systematic Literature Review <i>S. U. Khan, M. Niazi, and R. Ahmad</i> (UK and Pakistan)
P174	Re-defining the Requirements Engineering Process Improvement Model <i>B. Solemon, S. Sahibuddin, and A. A. Abd Ghani</i> (Malaysia)
P194	Insights into Domain Knowledge Sharing in Software Development Practice <i>J. Buchan, C. Ekaadharmawan, and S. MacDonell</i> (New Zealand)
P137	The Context Dynamics Matrix (CDM): An Approach to Modelling Context <i>Z. Alshaiikh and C. Boughton</i> (Australia)

Session 2B: Software Architecture

P179	An Empirical Study of Software Architects' Concerns <i>H. B. Christensen, K. R. Schougaard, and K. M. Hansen</i> (Denmark and Iceland)
P167	Attribute-Based Architecture Patterns for Lightweight Service-Oriented Architectures <i>M. Aoyama, T. Ikezaki, and N. Nakamichi</i> (Japan)
P245	Tool Support for Component-Based Software Architectures <i>G. Buchgeher and R. Weinreich</i> (Austria)
P165	Web Services Composition by I/O Data Structure Correspondences <i>Q. Wang and O. Shigo</i> (Japan)

Session 2C: Software Testing I

P183	Search-Based Testing Guidance Using Dominances vs. Control Dependencies <i>A. S. Ghiduk</i> (Egypt)
P169	Analysis of the OLSR Protocol by using formal passive testing <i>C. Andres, S. Maag, A. Cavalli, M. G. Merayo, and M. Nunez</i> (Spain and France)
P024	Variable Strength Interaction Testing with an Ant Colony System Approach <i>X. Chen, Q. Gu, A. Li, and D. Chen</i> (China)
P158	Spectral Debugging with Weights and Incremental Ranking <i>L. Naish, H. J. Lee, and K. Ramamohanarao</i> (Australia)

Session 3A: Metrics and Measurement II

P092	Improve Analogy-based Software Effort Estimation Using Principal Components Analysis and Correlation Weighting <i>J. Wen, S. Li, and L. Tang</i> (China)
P226	Investigating the Effect of Pair Programming and Software Size on Software Quality and Programmer Productivity <i>R. Sison</i> (Philippines)

Session 3B: Software Design II

P028	Describing Pattern Languages for Checking Design Models <i>B. Zamani and G. Butler</i> (Canada)
P215	An Efficient Context-based User Interface by Exploiting Temporality of Attributes <i>M. Kumara Swamy and P. Krishna Reddy</i> (India)

Session 3C: Aspect Oriented Programming

P044	Aspect Oriented Programming Made Easy: An Embedded Pointcut Language <i>A. Cisternino and S. Vaucouleur</i> (Italy and Denmark)
P241	Analysis and Composition of Multiple Aspects <i>Nafees Qamar</i> (France)

Session 4A: Requirements Engineering II

P123	Elicit the Requirements on Software Dependability: A Knowledge-Based Approach <i>C. Liu, Y. Wang, and Z. Jin (China)</i>
P090	Modeling Access Control Requirements in Feature Model <i>L. Sun, and G. Huang (China)</i>
P068	Performing Projection in Problem Frames Using Scenarios <i>Z. Jin, X. Chen, and D. Zowghi (China and Australia)</i>
P243	A Light-Weight Formal Approach for Modeling, Verifying and Integrating Role-Based Access Control Requirements <i>S. Zafar (Pakistan)</i>

Session 4B: Program Analysis

P109	Contribution-Based Call Stack Abstraction and Its Application in Pointer Analysis of AspectJ Programs <i>J. Qian and B. Xu (China)</i>
P084	Program Sifting for Language-based Static Analysis <i>K. Yu, C. Wang, Y-L. Chen, and M-X. Lin (China)</i>
P049	Avoiding Some Common Preprocessing Pitfalls with Feature Queries <i>S. Jarzabek, Y. Xue, H. Zhang, and Y. Lee (Singapore and China)</i>
P224	Sequence Diagram Slicing <i>K. Noda, T. Kobayashi, S. Yamamoto, and K. Agusa (Japan)</i>

Session 4C: Software Testing II

P156	Test Coverage Metric for Two-staged Language with Abstract Interpretation <i>T. Kim, C. Lee, K. Lee, S. Baik, K. Yi, and C. Wu (Korea)</i>
P031	Analysis of Problems in Testing Practices <i>J. Kasurinen, O. Taipale, and K. Smolander (Finland)</i>
P121	Unit testing approaches for BPEL: A Systematic Review <i>Z. Zakaria, A. A. Abdul Ghani, R. Atan, and N. F. Mohd. Sani (Malaysia)</i>
P277	Scheduling Test Execution of WBEM Applications <i>L. Yu, Y. Su, and Q. Wang (China)</i>

Session 5A: Requirements Engineering III

P054	Incomplete Software Requirements and Assumptions Made by Software Engineers <i>Ö. Albayrak (Turkey)</i>
P285	Requirements Identification and Representation in Software Product Line <i>S. Abd Halim, D. N. A. Jawawi, and S. Deris (Malaysia)</i>
P271	Propagating Requirement Change into Software Designs to Resilient Software Evolution <i>N. Ibrahim, W. M.N. Wan Kadir, and S. Deris (Malaysia)</i>
P074	Model-driven Automatic Generation of Verified BPEL Code for Web Service Composition <i>B. Li, J. Pang, and Y. Zhou (China and Luxembourg)</i>

Session 5B: Software Maintenance

P270	Problematic Code Clones Identification Using Multiple Detection Results <i>Y. Higo, K-I. Sawa, and S. Kusumoto (Japan)</i>
P057	Code Clone Graph Metrics for Detecting Diffused Code Clones <i>Y. Fukushima, R. Kula, S. Kawaguchi, K. Fushida, M. Nagura, and H. Iida (Japan)</i>
P268	Assessing Corrective, Enhancive, and Reductive Maintenance Tasks: A Controlled Experiment <i>V. Nguyen, B. Boehm, and P. Danphitsanuphan (USA and Thailand)</i>
P160	Identifying Stagnation Periods in Software Evolution by Replaying Editing Operations <i>T. Omori and K. Maruyama (Japan)</i>

Session 5C: Software Testing III

P096	Fault Localization Based on Multi-Level Similarity of Execution Traces <i>X. Wang, Q. Gu, X. Zhang, X. Chen, and D. Chen (China)</i>
P234	Directed Test Suite Augmentation <i>Z. Xu and G. Rothermel (USA)</i>
P228	Checking Model Consistency using Data-Flow Testing <i>C-W. Wang and A. Cavarra (UK)</i>
P254	An Effective Path Selection Strategy for Mutation Testing <i>M. Papadakis and N. Malevris (Greece)</i>

Session 6A: Project Management

P172	Establishing a User Experience Team in a Software Organization: A Case Study <i>J. Heiskari and L. Lehtola (Finland)</i>
P182	Extracting Development Organization from Open Source Software <i>J. Han, B. Lee, and C. Wu (Korea)</i>
P204	Project Management Using Risk Identification Architecture Pattern (RIAP) Model: a Case Study on a Web-Based Application <i>T. Al-Rousan, S. Sulaiman, and R. Abdul Salam (Malaysia)</i>
P045	Risks Identification and Mitigation Processes for Using Scrum in Global Software Development: A Conceptual Framework <i>E. Hossain, M. Babar, H-Y. Paik, and J. Verner (Australia and Ireland)</i>

Session 6B: Software Process

P244	An Automatic Compliance Checking Approach for Software Processes <i>X. He, J. Guo, Y. Guo, Y. Wang, and J. Ma (China)</i>
P290	A Push for Software Process Improvement in Thailand <i>P. Mongkolnam, U. Silparcha, N. Waraporn, and V. Vanijja (Thailand)</i>
P205	Applying a Systematic Approach to Link Requirements and Testing – a Case Study <i>J. Kukkanen, M. Kauppinen, E. Uusitalo, and K. Väkeväinen (Finland)</i>
P292	A Formal Framework to Integrate Timed Security Rules within a TEFSM-Based System Specification <i>W. Mallouli, A. Mammam, and A. Cavalli (France)</i>



Session 6C: Verification and Validation II

P138	Towards Automated Verification of Distributed Consensus Protocols <i>T. Minamikawa, T. Tsuchiya, and T. Kikuno</i> (Japan)
P029	A Method for Modeling and Analyzing Fault-Tolerant Service Composition <i>G. Fan, H. Yu, L. Chen, and D. Liu</i> (China)
P136	Modular Checking of C programs using SAT-based Bounded Model Checker <i>Y. Hashimoto and S. Nakajima</i> (Japan)
P035	Selecting Usability Evaluation Methods for Software Process Descriptions <i>M. N. Mahrin, P. Strooper, and D. Carrington</i> (Malaysia and Australia)

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