**Volume 37, Issue 2**

** [A Comparative Study of Software Model Checkers as Unit Testing Tools: An Industrial Case Study](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5510242)**

**Moonzoo Kim** **Yunho Kim** **Hotae Kim**   
**Page(s):** 146 - 160   
**Digital Object Identifier :** 10.1109/TSE.2010.68

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5510242) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5510242) (2013KB)

Quick Abstract

 

[**Assessing, Comparing, and Combining State Machine-Based Testing and Structural Testing: A Series of Experiments**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416729)

**Mouchawrab, S.** **Briand, L.C.** **Labiche, Y.** **Di Penta, M.**   
**Page(s):** 161 - 187   
**Digital Object Identifier :** 10.1109/TSE.2010.32

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416729) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5416729) (5858KB)

Quick Abstract

 

[**Automatically Detecting and Tracking Inconsistencies in Software Design Models**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432227)

**Egyed, A.**   
**Page(s):** 188 - 204   
**Digital Object Identifier :** 10.1109/TSE.2010.38

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432227) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432227) (5049KB)

Quick Abstract

 

[**Improving Source Code Lexicon via Traceability and Information Retrieval**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5601742)

**De Lucia, A.** **Di Penta, M.** **Oliveto, R.**   
**Page(s):** 205 - 227   
**Digital Object Identifier :** 10.1109/TSE.2010.89

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5601742) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5601742) (2636KB)

Quick Abstract

 

[**Loupe: Verifying Publish-Subscribe Architectures with a Magnifying Lens**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432228)

**Baresi, L.** **Ghezzi, C.** **Mottola, L.**   
**Page(s):** 228 - 246   
**Digital Object Identifier :** 10.1109/TSE.2010.39

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432228) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432228) (3833KB)

Quick Abstract

 

[**Self-Supervising BPEL Processes**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432226)

**Baresi, L.** **Guinea, S.**   
**Page(s):** 247 - 263   
**Digital Object Identifier :** 10.1109/TSE.2010.37

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432226) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432226) (1554KB)

Quick Abstract

 

[**Software Module Clustering as a Multi-Objective Search Problem**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406532)

**Praditwong, K.** **Harman, M.** **Xin Yao**   
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**Digital Object Identifier :** 10.1109/TSE.2010.26

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406532) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5406532) (7221KB)

[**Systematic Review and Aggregation of Empirical Studies on Elicitation Techniques**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416730)

**Dieste, O.** **Juristo, N.**   
**Page(s):** 283 - 304   
**Digital Object Identifier :** 10.1109/TSE.2010.33

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416730) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5416730) (14560KB)

**Volume 37, Issue 1**

** [Bristlecone: Language Support for Robust Software Applications](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416725)**

**Demsky, B.** **Sundaramurthy, S.**   
**Page(s):** 4 - 23   
**Digital Object Identifier :** 10.1109/TSE.2010.27

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416725) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5416725) (3019KB)

Quick Abstract

 

[**Deriving a Slicing Algorithm via FermaT Transformations**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5401170)

**Ward, M.P.** **Zedan, H.**   
**Page(s):** 24 - 47   
**Digital Object Identifier :** 10.1109/TSE.2010.13

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5401170) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5401170) (816KB)

Quick Abstract

 

[**Developing a Single Model and Test Prioritization Strategies for Event-Driven Software**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5401169)

**Bryce, R.C.** **Sampath, S.** **Memon, A.M.**   
**Page(s):** 48 - 64   
**Digital Object Identifier :** 10.1109/TSE.2010.12

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5401169) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5401169) (5832KB)

Quick Abstract

 

[**From UML to Petri Nets: The PCM-Based Methodology**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5396344)

**Distefano, S.** **Scarpa, M.** **Puliafito, A.**   
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**Digital Object Identifier :** 10.1109/TSE.2010.10

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5396344) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5396344) (5041KB)

Quick Abstract

 

[**Genetic Algorithms for Randomized Unit Testing**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5704237)

**Andrews, J.H.** **Menzies, T.** **Li, F.C.H.**   
**Page(s):** 80 - 94   
**Digital Object Identifier :** 10.1109/TSE.2010.46

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5704237) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5704237) (3498KB)

Quick Abstract

 

[**Plat\_Forms: A Web Development Platform Comparison by an Exploratory Experiment Searching for Emergent Platform Properties**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406528)

**Prechelt, L.**   
**Page(s):** 95 - 108   
**Digital Object Identifier :** 10.1109/TSE.2010.22

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406528) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5406528) (1369KB)

Quick Abstract

 

[**Semi-Proving: An Integrated Method for Program Proving, Testing, and Debugging**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406529)

**Tsong Yueh Chen** **Tse, T.H.** **Zhi Quan Zhou**   
**Page(s):** 109 - 125   
**Digital Object Identifier :** 10.1109/TSE.2010.23

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406529) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5406529) (4489KB)

[**Verifying the Evolution of Probability Distributions Governed by a DTMC**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5557891)

**YoungMin Kwon** **Agha, G.**   
**Page(s):** 126 - 141   
**Digital Object Identifier :** 10.1109/TSE.2010.80

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5557891) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5557891) (1115KB)

**Volume 36, Issue 6**

** [Search Based Software Engineering: Introduction to the Special Issue of the IEEE Transactions on Software Engineering](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5644735)**

**Harman, Mark** **Mansouri, Afshin**   
**Page(s):** 737 - 741   
**Digital Object Identifier :** 10.1109/TSE.2010.106

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5644735) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5644735) (361KB)

 

[**A Systematic Review of the Application and Empirical Investigation of Search-Based Test Case Generation**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210118)

**Ali, S.** **Briand, L.C.** **Hemmati, H.** **Panesar-Walawege, R.K.**   
**Page(s):** 742 - 762   
**Digital Object Identifier :** 10.1109/TSE.2009.52

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210118) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5210118) (4632KB)

Quick Abstract

 

[**Efficient Software Verification: Statistical Testing Using Automated Search**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406530)

**Poulding, S.** **Clark, J.A.**   
**Page(s):** 763 - 777   
**Digital Object Identifier :** 10.1109/TSE.2010.24

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406530) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5406530) (1934KB)

Quick Abstract

 

[**A Genetic Algorithm-Based Stress Test Requirements Generator Tool and Its Empirical Evaluation**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383373)

**Garousi, V.**   
**Page(s):** 778 - 797   
**Digital Object Identifier :** 10.1109/TSE.2010.5

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383373) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383373) (6078KB)

Quick Abstract

 

[**Interactive, Evolutionary Search in Upstream Object-Oriented Class Design**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432223)

**Simons, C.L.** **Parmee, I.C.** **Gwynllyw, R.**   
**Page(s):** 798 - 816   
**Digital Object Identifier :** 10.1109/TSE.2010.34

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432223) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432223) (5175KB)

Quick Abstract

 

[**Solving the Class Responsibility Assignment Problem in Object-Oriented Analysis with Multi-Objective Genetic Algorithms**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5530324)

**Bowman, M.** **Briand, L.C.** **Labiche, Y.**   
**Page(s):** 817 - 837   
**Digital Object Identifier :** 10.1109/TSE.2010.70

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5530324) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5530324) (5114KB)

Quick Abstract

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[**ASCENT: An Algorithmic Technique for Designing Hardware and Software in Tandem**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5539763)

**White, J.** **Doughtery, B.** **Schmidt, D.C.**   
**Page(s):** 838 - 851   
**Digital Object Identifier :** 10.1109/TSE.2010.77

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5539763) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5539763) (1071KB)

** [Evolutionary Optimization of Software Quality Modeling with Multiple Repositories](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5467094)**

**Yi Liu** **Khoshgoftaar, T.M.** **Seliya, N.**   
**Page(s):** 852 - 864   
**Digital Object Identifier :** 10.1109/TSE.2010.51

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5467094) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5467094) (2477KB)

Quick Abstract

 

[**Using Genetic Search for Reverse Engineering of Parametric Behavior Models for Performance Prediction**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5530323)

**Krogmann, K.** **Kuperberg, M.** **Reussner, R.**   
**Page(s):** 865 - 877   
**Digital Object Identifier :** 10.1109/TSE.2010.69

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5530323) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5530323) (1043KB)

**Volume 36, Issue 5**

[**The Effects of Time Constraints on Test Case Prioritization: A Series of Controlled Experiments**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5482587)

**Hyunsook Do** **Mirarab, S.** **Tahvildari, L.** **Rothermel, G.**   
**Page(s):** 593 - 617   
**Digital Object Identifier :** 10.1109/TSE.2010.58

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5482587) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5482587) (7935KB)

Quick Abstract

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[**What Makes a Good Bug Report?**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5487527)

**Zimmermann, T.** **Premraj, R.** **Bettenburg, N.** **Just, S.** **Schroter, A.** **Weiss, C.**   
**Page(s):** 618 - 643   
**Digital Object Identifier :** 10.1109/TSE.2010.63

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5487527) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5487527) (8210KB) | Multimedia

Quick Abstract

 

[**Context-Aware Adaptive Applications: Fault Patterns and Their Automated Identification**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432224)

**Sama, M.** **Elbaum, S.** **Raimondi, F.** **Rosenblum, D.S.** **Zhimin Wang**   
**Page(s):** 644 - 661   
**Digital Object Identifier :** 10.1109/TSE.2010.35

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432224) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432224) (2350KB)

Quick Abstract

 

[**A Comparison of Six UML-Based Languages for Software Process Modeling**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5593045)

**Bendraou, R.** **Jézéquel, J.-M.** **Gervais, M.-P.** **Blanc, X.**   
**Page(s):** 662 - 675   
**Digital Object Identifier :** 10.1109/TSE.2009.85

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5593045) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5593045) (2589KB)

Quick Abstract

 

[**How Reliable Are Systematic Reviews in Empirical Software Engineering?**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416726)

**MacDonell, S.** **Shepperd, M.** **Kitchenham, B.** **Mendes, E.**   
**Page(s):** 676 - 687   
**Digital Object Identifier :** 10.1109/TSE.2010.28

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416726) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5416726) (2209KB)

Quick Abstract

 

[**Reverse Engineering Input Syntactic Structure from Program Execution and Its Applications**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210120)

**Zhiqiang Lin** **Xiangyu Zhang** **Dongyan Xu**   
**Page(s):** 688 - 703   
**Digital Object Identifier :** 10.1109/TSE.2009.54

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210120) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5210120) (3759KB)

Quick Abstract

 

[**Stressing Search with Scenarios for Flexible Solutions to Real-Time Task Allocation Problems**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262947)

**Emberson, P.** **Bate, I.**   
**Page(s):** 704 - 718   
**Digital Object Identifier :** 10.1109/TSE.2009.58

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262947) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5262947) (3371KB)

[**Time and Probability-Based Information Flow Analysis**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383372)

**Lanotte, R.** **Maggiolo-Schettini, A.** **Troina, A.**   
**Page(s):** 719 - 734   
**Digital Object Identifier :** 10.1109/TSE.2010.4

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383372) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383372) (1646KB)

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[**An Experience in Testing the Security of Real-World Electronic Voting Systems**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210119)

**Balzarotti, D.** **Banks, G.** **Cova, M.** **Felmetsger, V.** **Kemmerer, R.** **Robertson, W.** **Valeur, F.** **Vigna, G.**   
**Page(s):** 453 - 473   
**Digital Object Identifier :** 10.1109/TSE.2009.53

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210119) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5210119) (1080KB)

Quick Abstract

 

[**Finding Bugs in Web Applications Using Dynamic Test Generation and Explicit-State Model Checking**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416728)

**Artzi, S.** **Kiezun, A.** **Dolby, J.** **Tip, F.** **Dig, D.** **Paradkar, A.** **Ernst, M.D.**   
**Page(s):** 474 - 494   
**Digital Object Identifier :** 10.1109/TSE.2010.31

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5416728) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5416728) (4613KB)

Quick Abstract

 

[**Proofs from Tests**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5444886)

**Beckman, N.E.** **Nori, A.V.** **Rajamani, S.K.** **Simmons, R.J.** **Tetali, S.D.** **Thakur, A.V.**   
**Page(s):** 495 - 508   
**Digital Object Identifier :** 10.1109/TSE.2010.49

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5444886) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5444886) (2855KB)

Quick Abstract

 

[**Aspect-Oriented Race Detection in Java**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406531)

**Bodden, E.** **Havelund, K.**   
**Page(s):** 509 - 527   
**Digital Object Identifier :** 10.1109/TSE.2010.25

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5406531) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5406531) (2538KB)

Quick Abstract

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[**The Probabilistic Program Dependence Graph and Its Application to Fault Diagnosis**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374423)

**Baah, G.K.** **Podgurski, A.** **Harrold, M.J.**   
**Page(s):** 528 - 545   
**Digital Object Identifier :** 10.1109/TSE.2009.87

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374423) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374423) (4609KB)

Quick Abstract

 

[**Learning a Metric for Code Readability**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5332232)

**Buse, R.P.L.** **Weimer, W.R.**   
**Page(s):** 546 - 558   
**Digital Object Identifier :** 10.1109/TSE.2009.70

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5332232) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5332232) (2944KB)

Quick Abstract

** [Assessing Software Service Quality and Trustworthiness at Selection Time](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383370)**

**Limam, N.** **Boutaba, R.**   
**Page(s):** 559 - 574   
**Digital Object Identifier :** 10.1109/TSE.2010.2

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383370) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383370) (3553KB) | Multimedia

Quick Abstract

 

[**Evaluation of Accuracy in Design Pattern Occurrence Detection**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374428)

**Pettersson, N.** **Löwe, W.** **Nivre, J.**   
**Page(s):** 575 - 590   
**Digital Object Identifier :** 10.1109/TSE.2009.92

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374428) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374428) (1789KB)

**Volume 36, Issue 3**

** [Incremental Test Generation for Software Product Lines](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5456077)**

**Uzuncaova, E.** **Khurshid, S.** **Batory, D.**   
**Page(s):** 309 - 322   
**Digital Object Identifier :** 10.1109/TSE.2010.30

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5456077) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5456077) (1711KB)

Quick Abstract

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[**Software Reliability and Testing Time Allocation: An Architecture-Based Approach**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383374)

**Pietrantuono, R.** **Russo, S.** **Trivedi, K.S.**   
**Page(s):** 323 - 337   
**Digital Object Identifier :** 10.1109/TSE.2010.6

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383374) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383374) (2325KB)

Quick Abstract

 

[**Verification and Trade-Off Analysis of Security Properties in UML System Models**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432225)

**Georg, G.** **Anastasakis, K.** **Bordbar, B.** **Houmb, S.H.** **Ray, I.** **Toahchoodee, M.**   
**Page(s):** 338 - 356   
**Digital Object Identifier :** 10.1109/TSE.2010.36

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5432225) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5432225) (2334KB)

Quick Abstract

 

[**Vulnerability Discovery with Attack Injection**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374427)

**Antunes, J.** **Neves, N.** **Correia, M.** **Verissimo, P.** **Neves, R.**   
**Page(s):** 357 - 370   
**Digital Object Identifier :** 10.1109/TSE.2009.91

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374427) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374427) (2563KB)

Quick Abstract

 

[**Discovering Services during Service-Based System Design Using UML**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374424)

**Spanoudakis, G.** **Zisman, A.**   
**Page(s):** 371 - 389   
**Digital Object Identifier :** 10.1109/TSE.2009.88

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374424) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374424) (3021KB)

Quick Abstract

 

[**Learning Communicating Automata from MSCs**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374425)

**Bollig, B.** **Katoen, J.-P.** **Kern, C.** **Leucker, M.**   
**Page(s):** 390 - 408   
**Digital Object Identifier :** 10.1109/TSE.2009.89

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374425) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374425) (3219KB)

** [On Event-Based Middleware for Location-Aware Mobile Applications](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374426)**

**Meier, R.** **Cahill, V.**   
**Page(s):** 409 - 430   
**Digital Object Identifier :** 10.1109/TSE.2009.90

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5374426) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5374426) (3754KB)

Quick Abstract

 

[**Program Behavior Discovery and Verification: A Graph Grammar Approach**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383371)

**Chunying Zhao** **Jun Kong** **Kang Zhang**   
**Page(s):** 431 - 448   
**Digital Object Identifier :** 10.1109/TSE.2010.3

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383371) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383371) (6478KB)

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** [Understanding Exception Handling: Viewpoints of Novices and Experts](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383375)**

**Shah, H.B.** **Gorg, C.** **Harrold, M.J.**   
**Page(s):** 150 - 161   
**Digital Object Identifier :** 10.1109/TSE.2010.7

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383375) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383375) (690KB)

Quick Abstract

 

[**Exception Handling Patterns for Process Modeling**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383369)

**Lerner, B.S.** **Christov, S.** **Osterweil, L.J.** **Bendraou, R.** **Kannengiesser, U.** **Wise, A.**   
**Page(s):** 162 - 183   
**Digital Object Identifier :** 10.1109/TSE.2010.1

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383369) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383369) (3126KB)

Quick Abstract

 

[**A Framework for Programming Robust Context-Aware Applications**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5396345)

**Kulkarni, D.** **Tripathi, A.**   
**Page(s):** 184 - 197   
**Digital Object Identifier :** 10.1109/TSE.2010.11

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5396345) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5396345) (3461KB)

Quick Abstract

 

[**Exception Handling for Repair in Service-Based Processes**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383376)

**Friedrich, G.** **Fugini, M.** **Mussi, E.** **Pernici, B.** **Tagni, G.**   
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**Digital Object Identifier :** 10.1109/TSE.2010.8

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383376) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383376) (3319KB)

Quick Abstract

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[**A Quantitative Investigation of the Acceptable Risk Levels of Object-Oriented Metrics in Open-Source Systems**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383377)

**Shatnawi, R.**   
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[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5383377) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5383377) (2155KB)

Quick Abstract

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[**A Theoretical and Empirical Study of Search-Based Testing: Local, Global, and Hybrid Search**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5342440)

**Harman, M.** **McMinn, P.**   
**Page(s):** 226 - 247   
**Digital Object Identifier :** 10.1109/TSE.2009.71

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5342440) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5342440) (5287KB)

** [Bayesian Approaches to Matching Architectural Diagrams](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5232811)**

**Kimelman, D.** **Kimelman, M.** **Mandelin, D.** **Yellin, D.M.**   
**Page(s):** 248 - 274   
**Digital Object Identifier :** 10.1109/TSE.2009.56

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5232811) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5232811) (3492KB)

Quick Abstract

 

[**Engineering a Sound Assertion Semantics for the Verifying Compiler**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262949)

**Chalin, P.**   
**Page(s):** 275 - 287   
**Digital Object Identifier :** 10.1109/TSE.2009.59

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262949) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5262949) (1719KB) | Multimedia

Quick Abstract

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[**Service-Level Agreements for Electronic Services**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210121)

**Skene, J.** **Raimondi, F.** **Emmerich, W.**   
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**Digital Object Identifier :** 10.1109/TSE.2009.55

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5210121) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5210121) (2884KB)

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** [Better Debugging via Output Tracing and Callstack-Sensitive Slicing](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5282499)**

**Horwitz, S.** **Liblit, B.** **Polishchuk, M.**   
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**Digital Object Identifier :** 10.1109/TSE.2009.66

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5282499) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5282499) (2326KB)

Quick Abstract

 

[**DECOR: A Method for the Specification and Detection of Code and Design Smells**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5196681)

**Moha, N.** **Gueheneuc, Y.-G.** **Duchien, L.** **Le Meur, A.-F.**   
**Page(s):** 20 - 36   
**Digital Object Identifier :** 10.1109/TSE.2009.50

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5196681) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5196681) (3343KB)

Quick Abstract

 

[**Directed Explicit State-Space Search in the Generation of Counterexamples for Stochastic Model Checking**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262946)

**Aljazzar, H.** **Leue, S.**   
**Page(s):** 37 - 60   
**Digital Object Identifier :** 10.1109/TSE.2009.57

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5262946) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5262946) (7638KB)

Quick Abstract

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[**Effects of Personality on Pair Programming**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5089333)

**Hannay, J.E.** **Arisholm, E.** **Engvik, H.** **Sjoberg, D.I.K.**   
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**Digital Object Identifier :** 10.1109/TSE.2009.41

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5089333) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5089333) (6639KB)

Quick Abstract

 

[**Generating Event Sequence-Based Test Cases Using GUI Runtime State Feedback**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5306073)

**Xun Yuan** **Memon, A.M.**   
**Page(s):** 81 - 95   
**Digital Object Identifier :** 10.1109/TSE.2009.68

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5306073) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5306073) (2978KB)

Quick Abstract

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[**How Developers' Experience and Ability Influence Web Application Comprehension Tasks Supported by UML Stereotypes: A Series of Four Experiments**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5332231)

**Ricca, F.** **Di Penta, M.** **Torchiano, M.** **Tonella, P.** **Ceccato, M.**   
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**Digital Object Identifier :** 10.1109/TSE.2009.69

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5332231) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5332231) (5735KB)

[**Providing Architectural Languages and Tools Interoperability through Model Transformation Technologies**](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5204094)

**Malavolta, I.** **Muccini, H.** **Pelliccione, P.** **Tamburri, D.A.**   
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**Digital Object Identifier :** 10.1109/TSE.2009.51

[Abstract](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5204094) | Full Text: [PDF](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5204094) (4271KB)