## 2012 Index

### IEEE Transactions on Software Engineering

### Vol. 38

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2012, and items from previous years that were commended upon or corrected in 2012. Errata and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author’s name. The primary entry includes the authors’ names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the item title is found only under the primary entry in the Author Index.

### AUTHOR INDEX

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bieman, James, Mortensen, Michael</td>
<td>TSE Jan.-Feb. 2012 118-140</td>
</tr>
<tr>
<td>Binder, Walter, Rothlisberger, David</td>
<td>TSE May-June 2012 579-591</td>
</tr>
<tr>
<td>Brosch, Franz, Koziolke, Heiko, Buhnova, Barbora, and Reussner, Ralf</td>
<td>TSE Nov.-Dec. 2012 1319-1339</td>
</tr>
<tr>
<td>Burgess, Tony, see Brickey, Jonalan</td>
<td>TSE May-June 2012 537-546</td>
</tr>
<tr>
<td>Bruea, Damen, see Cassou, Damien</td>
<td>TSE Nov.-Dec. 2012 1445-1463</td>
</tr>
<tr>
<td>Budgen, David, see Zhang, Cheng, TSE Sept.-Oct. 2012 1213-1231</td>
<td></td>
</tr>
<tr>
<td>Buhnova, Barbora, see Brosch, Franz</td>
<td>TSE Nov.-Dec. 2012 1319-1339</td>
</tr>
</tbody>
</table>

### B

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baesens, Bart, see Dejaeger, Karel</td>
<td>TSE March-April 2012 375-397</td>
</tr>
<tr>
<td>Ballard, Emilie, see Cassou, Damien</td>
<td>TSE Nov.-Dec. 2012 1445-1463</td>
</tr>
<tr>
<td>Bartolomei, Thiago Tonelli, see Heydarnoori, Abbas</td>
<td>TSE Nov.-Dec. 2012 1464-1487</td>
</tr>
<tr>
<td>Beck, Roman, see Zickert, Frank</td>
<td>TSE Sept.-Oct. 2012 1027-1039</td>
</tr>
<tr>
<td>Beecham, Sarah, see Hall, Tracy</td>
<td>TSE Nov.-Dec. 2012 1276-1304</td>
</tr>
<tr>
<td>Benbernou, Salima, see Andrikopoulos, Vasilios</td>
<td>TSE May-June 2012 609-628</td>
</tr>
<tr>
<td>Bener, Ayse, see Kocaguneli, Ekrem</td>
<td>TSE March-April 2012 425-438</td>
</tr>
<tr>
<td>Bicciato, Stefano, see Bruea, Damen, TSE Nov.-Dec. 2012 1305-1318</td>
<td></td>
</tr>
<tr>
<td>Bieman, James, see Mortensen, Michael</td>
<td>TSE Jan.-Feb. 2012 118-140</td>
</tr>
<tr>
<td>Binder, Walter, see Rothlisberger, David</td>
<td>TSE May-June 2012 579-591</td>
</tr>
<tr>
<td>Binder, Walter, see Heydarnoori, Abbas, TSE Nov.-Dec. 2012 1464-1487</td>
<td></td>
</tr>
<tr>
<td>Black, Andrew P., see Murphy-Hill, Emerson</td>
<td>TSE Nov.-Dec. 2012 1417-1431</td>
</tr>
<tr>
<td>Black, Andrew P., see Murphy-Hill, Emerson</td>
<td>TSE Jan.-Feb. 2012 5-18</td>
</tr>
<tr>
<td>Borges, Virgilio, see Valente, Marco Tulio</td>
<td>TSE July-Aug. 2012 737-754</td>
</tr>
<tr>
<td>Bowes, David, see Hall, Tracy</td>
<td>TSE Nov.-Dec. 2012 1276-1304</td>
</tr>
<tr>
<td>Braberman, Victor, see de Caso, Guido</td>
<td>TSE Jan.-Feb. 2012 141-162</td>
</tr>
<tr>
<td>Briand, Lionel, see Arcuri, Andrea</td>
<td>TSE Sept.-Oct. 2012 1088-1099</td>
</tr>
<tr>
<td>Briand, Lionel, see Shousha, Marwa</td>
<td>TSE March-April 2012 354-374</td>
</tr>
<tr>
<td>Briand, Lionel, see Arcuri, Andrea</td>
<td>TSE March-April 2012 258-277</td>
</tr>
<tr>
<td>Briand, Lionel, see Arcuri, Andrea</td>
<td>TSE March-April 2012 258-277</td>
</tr>
<tr>
<td>Brickey, Jonalan, Walczak, Steven, and Burgess, Tony, see Brickey, Jonalan</td>
<td>TSE May-June 2012 537-546</td>
</tr>
<tr>
<td>Brosch, Franz, Koziolke, Heiko, Buhnova, Barbora, and Reussner, Ralf</td>
<td>TSE Nov.-Dec. 2012 1319-1339</td>
</tr>
<tr>
<td>Bruea, Damen, see Cassou, Damien</td>
<td>TSE Nov.-Dec. 2012 1445-1463</td>
</tr>
<tr>
<td>Budgen, David, see Zhang, Cheng, TSE Sept.-Oct. 2012 1213-1231</td>
<td></td>
</tr>
<tr>
<td>Buhnova, Barbora, see Brosch, Franz</td>
<td>TSE Nov.-Dec. 2012 1319-1339</td>
</tr>
<tr>
<td>Burgess, Tony, see Brickey, Jonalan</td>
<td>TSE May-June 2012 537-546</td>
</tr>
</tbody>
</table>

### C

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camplani, Romolo, see Schreiber, Fabio A., TSE March-April 2012 478-496</td>
<td></td>
</tr>
<tr>
<td>Casale, Giuliano, see Al-Kofahi, Jafar, TSE Nov.-Dec. 2012 1305-1318</td>
<td></td>
</tr>
<tr>
<td>Casale, Giuliano, Balbasi, Amir, Krishnamurthy, Diwakar, and Rolia, Jerry, TSE Nov.-Dec. 2012 1305-1318</td>
<td></td>
</tr>
<tr>
<td>Cassou, Damien, Bruneau, Julien, Consel, Charles, and Ballard, Emilie, Towards a Tool-Based Development Methodology for Pervasive Computing Applications</td>
<td>TSE Nov.-Dec. 2012 1445-1463</td>
</tr>
<tr>
<td>Cetin, Semih, see Altintas, N. Ilker, TSE Nov.-Dec. 2012 1376-1402</td>
<td></td>
</tr>
<tr>
<td>Chechik, Marsha, see Nejati, Shiva</td>
<td>TSE Nov.-Dec. 2012 1355-1375</td>
</tr>
<tr>
<td>Cheng, Chow Kian, see Unterkalmsmeir, Michael</td>
<td>TSE March-April 2012 394-424</td>
</tr>
<tr>
<td>Cherkasova, Ludmila, see Casale, Giuliano, TSE Sept.-Oct. 2012 1040-1053</td>
<td></td>
</tr>
<tr>
<td>Consel, Charles, see Cassou, Damien</td>
<td>TSE Nov.-Dec. 2012 1445-1463</td>
</tr>
<tr>
<td>Czarnecki, Krzysztof, see Heydarnoori, Abbas</td>
<td>TSE Nov.-Dec. 2012 1464-1487</td>
</tr>
</tbody>
</table>

### D

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dallmeier, Valentin, Knopp, Nikolai, Mallon, Christoph, Fraser, Gordon, Hack, Sebastian, and Zeller, Andreas</td>
<td>TSE May-June 2012 557-566</td>
</tr>
<tr>
<td>Dawson, Stephen, see Kalbasi, Amir, TSE May-June 2012 561-578</td>
<td></td>
</tr>
<tr>
<td>de Caso, Guido, see Zhang, Cheng</td>
<td>TSE May-June 2012 141-162</td>
</tr>
<tr>
<td>De Pietro, Giuseppe, see Coronato, Antonio</td>
<td>TSE July-Aug. 2012 975-991</td>
</tr>
</tbody>
</table>
Pointcut Rejuvenation: Recovering Pointcut Expressions in Evolving Aspect-Oriented Software. Khatchadourian, Raffi, +, TSE May-June 2012 642-657

Authorization

Automata theory

Automatic test pattern generation
Automatically Generating Test Cases for Specification Mining. Dallmeier, Valentin, +, TSE March-April 2012 243-257
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477
 Mutation-Driven Generation of Unit Tests and Oracle. Fraser, Gordon, +, TSE March-April 2012 278-292

Automatic testing

Automotive engineering

B

Benchmark testing

Business data processing
Domain-Specific Service Selection for Composite Services. Moser, Oliver, +, TSE July-Aug. 2012 828-843

C

C language
A Theoretical and Empirical Analysis of the Role of Test Sequence Length in Software Testing for Structural Coverage. Arcuri, Andrea, +, TSE May-June 2012 497-519

Client-server systems

Cognition

Collaborative filtering
StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. Lim, Soo Ling, +, TSE May-June 2012 707-735

Complexity theory

Computability
An Autonomous Engine for Services Configuration and Deployment. Cuadrado, Felix, +, TSE May-June 2012 520-536

Computational complexity
An Extensible Framework for Improving a Distributed Software System’s Deployment Architecture. Malek, Sam, +, TSE Jan.-Feb. 2012 73-100
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608

Computational modeling
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463

Computer architecture
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463

Concurrence control

Configuration management

Context modeling

Cost reduction

Costs

Customer satisfaction

Customer services
Solving the Large Scale Next Release Problem with a Backbone-Based Multi-level Algorithm. Xuan, Jifeng, +, TSE Sept.-Oct. 2012 1195-1212

Data acquisition
StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. Lim, Soo Ling, +, TSE May-June 2012 707-735

Data flow analysis

Data integration

Data mining
Automatically Generating Test Cases for Specification Mining. Dallmeier, Valentin, +, TSE March-April 2012 243-257

Data models

Data warehouses

Decision support systems

Design methodology
Architecture-Based Reliability Prediction with the Palladio Component Model. Brosch, Franz, +, TSE Nov.-Dec. 2012 1319-1339

Differential equations

Digital signatures

+ Check author entry for coauthors
Distributed processing
An Extensible Framework for Improving a Distributed Software System’s Deployment Architecture. Malek, Sam, +, TSE Jan.-Feb. 2012 73-100
Oracles for Distributed Testing. Hierons, Robert M., +, TSE May-June 2012 629-641

Divide and conquer methods

Document handling

Documentation

Domain specific languages
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463

DP industry
Quality Requirements in Industrial Practice&amp;#x2014;An Extended Interview Study at Eleven Companies. Bernssoon Svensson, Richard, +, TSE July-Aug. 2012 923-935

Dynamic programming
Exploiting Dynamic Information in IDEs Improves Speed and Correctness of Software Maintenance Tasks. Rothlisberger, David, +, TSE May-June 2012 579-591

Electronic mail

Embedded systems
SMT-Based Boundled Model Checking for Embedded ANSI-C Software. Cordeiro, Lucas, +, TSE July-Aug. 2012 957-974

Enterprise resource planning

Estimation theory
Software Development Estimation Biases: The Role of Interdependence. Jørgensen, Magne, +, TSE May-June 2012 677-693

Fault diagnosis

Fault tolerant computing
An Autonomous Engine for Services Configuration and Deployment. Cuadra, Felix, +, TSE May-June 2012 520-536

Feature extraction

File organization

Financial data processing

Finite state machines
Oracles for Distributed Testing. Hierons, Robert M., +, TSE May-June 2012 629-641

Forecasting theory

Formal specification
Adaptation of Service Protocols Using Process Algebra and On-the-Fly Redu-
Automatically Generating Test Cases for Specification Mining. Dallmeier, Valentin, +, TSE March-April 2012 243-257
Solving the Large Scale Next Release Problem with a Backbone-Based Multi-
tilevel Algorithm. Xuan, Jifeng, +, TSE Sept.-Oct. 2012 1195-1212
Specifying Dynamic Analyses by Extending Language Semantics. Lienhard, Adrian, +, TSE May-June 2012 694-709

Formal verification
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608
SMT-Based Boundled Model Checking for Embedded ANSI-C Software. Cordeiro, Lucas, +, TSE July-Aug. 2012 957-974

Fuzzy set theory

Generators
Analyzing the Effect of Gain Time on Soft-Task Scheduling Policies in Real-

Genetic algorithms

Graph theory

Greedy algorithms
Size-Constrained Regression Test Case Selection Using Multicriteria Optimi-
ation. Mirarab, Siavash, +, TSE July-Aug. 2012 936-956

Groupware
Palm&amp;#x2019;s00EDr: Early Detection of Development Conflicts Arising from Parallel Code Changes. Sarma, Anu, +, TSE July-Aug. 2012 889-908
Work Item Tagging: Communicating Concerns in Collaborative Software Development. Treude, Christoph, +, TSE Jan.-Feb. 2012 19-34

Heuristic algorithms
Analyzing the Effect of Gain Time on Soft-Task Scheduling Policies in Real-

Hierarchical systems

IEEE
2011 Reviewers List. TSE Jan.-Feb. 2012 236-238
Industrial property

Information retrieval
Work Item Tagging: Communicating Concerns in Collaborative Software Development. Treude, Christoph, +, TSE Jan.-Feb. 2012 19-34

Information systems
Comparing Semi-Automated Clustering Methods for Persona Development. Brickey, Jonalan, +, TSE May-June 2012 537-546
PerLa: A Language and Middleware Architecture for Data Management and Integration in Pervasive Information Systems. Schreier, Fabio A., +, TSE March-April 2012 478-496

Integer programming

Internet

Investments

Java
Automatically Generating Test Cases for Specification Mining. Dallmeier, Valentin, +, TSE March-April 2012 243-257

Linear programming

Linux
Automatic Detection of Unsafe Dynamic Component Loadings. Kwon, Taeho, +, TSE March-April 2012 293-313

Machine learning

Markov processes
Architecture-Based Reliability Prediction with the Palladio Component Model. Brosch, Frank, +, TSE Nov.-Dec. 2012 1319-1339

Mathematics computing

Measurement uncertainty

Meetings

Middleware
PerLa: A Language and Middleware Architecture for Data Management and Integration in Pervasive Information Systems. Schreier, Fabio A., +, TSE March-April 2012 478-496

Mobile computing

Multi-threading

Multiprocessing systems
DEC: Service Demand Estimation with Confidence. Kalbasi, Amir, +, TSE May-June 2012 561-578

Natural language processing

Neural networks

Object oriented programming
An Extensible Framework for Improving a Distributed Software System’s Deployment Architecture. Malek, Sam, +, TSE Jan.-Feb. 2012 73-100
A Theoretical and Empirical Analysis of the Role of Test Sequence Length in Software Testing for Structural Coverage. Arcuri, Andrea, +, TSE May-June 2012 497-519
Automatic Detection of Unsafe Dynamic Component Loadings. Kwon, Taeho, +, TSE March-April 2012 293-313
Exploiting Dynamic Information in IDEs Improves Speed and Correctness of Software Maintenance Tasks. Rothschilder, David, +, TSE May-June 2012 579-591
Mutation-Driven Generation of Unit Tests and Oracles. Fraser, Gordon, +, TSE March-April 2012 278-292
What Do We Know about the Effectiveness of Software Design Patterns?. Zhang, Cheng, +, TSE Sept.-Oct. 2012 1213-1231

Open source software

+ Check author entry for coauthors
Operating system kernels

Operating systems (computers)
Automatic Detection of Unsafe Dynamic Component Loadings. Kwon, Taeho, +, TSE March-April 2012 293-313

Optimization
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477
Mutation-Driven Generation of Unit Tests and Oracles. Fraser, Gordon, +, TSE March-April 2012 278-292

Parallel processing
Palant&x00ED;r: Early Detection of Development Conflicts Arising from Parallel Code Changes. Sirma, Anita, +, TSE July-Aug. 2012 889-908

Parameterization

Pattern clustering
Comparing Semi-Automated Clustering Methods for Persona Development. Brickey, Jonalan, +, TSE May-June 2012 537-546

Pervasive computing
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463

Phase change materials
Architecture-Based Reliability Prediction with the Palladio Component Model. Brosch, Franz, +, TSE Nov.-Dec. 2012 1319-1339

Polynomials
Oracles for Distributed Testing. Hierons, Robert M., +, TSE May-June 2012 629-641

Pragmatics

Predictive models

Principal component analysis
Comparing Semi-Automated Clustering Methods for Persona Development. Brickey, Jonalan, +, TSE May-June 2012 537-546

Probability

Process algebra

Product development

Production engineering computing

Productivity

Program compilers
Exploiting Dynamic Information in IDEs Improves Speed and Correctness of Software Maintenance Tasks. Rothlisberger, David, +, TSE May-June 2012 579-591
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477

Program debugging
Specifying Dynamic Analyses by Extending Language Semantics. Lienhard, Adrian, +, TSE May-June 2012 694-706

Program processors

Program slicing
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477

Program testing
A Theoretical and Empirical Analysis of the Role of Test Sequence Length in Software Testing for Structural Coverage. Arcuri, Andrea, +, TSE May-June 2012 497-519
Comparing the Defect Reduction Benefits of Code Inspection and Test-Driven Development. Wilkerson, Jerod W., +, TSE May-June 2012 547-560
Fault Localization for Dynamic Web Applications. Arzti, Shay, +, TSE March-April 2012 314-335

Program verification
Automatically Generating Test Cases for Specification Mining. Dallmeier, Valentin, +, TSE March-April 2012 243-257

+ Check author entry for coauthors

Programming
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463

Programming language semantics
Specifying Dynamic Analyses by Extending Language Semantics. Lienhart, Adrian, +, TSE May-June 2012 694-706

Project management
Quality Requirements in Industrial Practice&rsquo;14; An Extended Interview Study at Eleven Companies. Berntsson Svensson, Richard, +, TSE July-Aug. 2012 923-935
StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. Lim, Soo Ling, +, TSE May-June 2012 707-735

Protocols

Prototypes

Public domain software
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477

Quality of service
An Extensible Framework for Improving a Distributed Software System’s Deployment Architecture. Malek, Sam, +, TSE Jan.-Feb. 2012 73-100
Domain-Specific Service Selection for Composite Services. Moser, Oliver, +, TSE July-Aug. 2012 828-843

QoS Assurance for Dynamic Reconfiguration of Component-Based Software Systems. Li, Wei, +, TSE May-June 2012 658-676

Query processing

Queueing theory

Random processes

Real time systems
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477

Security of data
Automatic Detection of Unsafe Dynamic Component Loadings. Kwon, Taeho, +, TSE March-April 2012 293-313

Semantic Web
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608

Scheduling
A Static Approach to Prioritizing JUnit Test Cases. Mei, Hong, +, TSE Nov.-Dec. 2012 1258-1275

Search problems
Input Domain Reduction through Irrelevant Variable Removal and Its Effect on Local, Global, and Hybrid Search-Based Structural Test Data Generation. McMinn, Phil, +, TSE March-April 2012 453-477

StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. Lim, Soo Ling, +, TSE May-June 2012 707-735

Regression analysis
A Static Approach to Prioritizing JUnit Test Cases. Mei, Hong, +, TSE Nov.-Dec. 2012 1258-1275
DEC: Service Demand Estimation with Confidence. Kalbasi, Amir, +, TSE May-June 2012 561-578

Recommender systems
StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. Lim, Soo Ling, +, TSE May-June 2012 707-735

Regression tree analysis

Resource allocation
An Extensible Framework for Improving a Distributed Software System’s Deployment Architecture. Malek, Sam, +, TSE Jan.-Feb. 2012 73-100

Reverse engineering

Risk analysis

Safety-critical software

Servers

+ Check author entry for coauthors
An Autonomous Engine for Services Configuration and Deployment. *Cquadra*, Feliz, +, TSE May-June 2012 526-536

DEC: Service Demand Estimation with Confidence. *Kalbasi, Amir*, +, TSE May-June 2012 561-578


**Shadow mapping**


**Small-to-medium enterprises**


**Social networking (online)**

StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. *Lim, Soo Ling*, +, TSE May-June 2012 707-735

**Software architecture**


**Software cost estimation**


**Software development**


Solving the Large Scale Next Release Problem with a Backbone-Based Multilevel Algorithm. *Xuan, Jifeng*, +, TSE Sept.-Oct. 2012 1195-1212


**Software engineering**


**Software fault tolerance**


**Software libraries**


**Software maintenance**


How We Refactor, and How We Know It. *Murphy-Hill, Emerson*, +, TSE Jan.-Feb. 2012 5-18


What Do We Know about the Effectiveness of Software Design Patterns?. *Zhang, Cheng*, +, TSE Sept.-Oct. 2012 1213-1231

**Software management**


Palant&/#x00ED;r: Early Detection of Development Conflicts Arising from Parallel Code Changes. *Sarma, Anita*, +, TSE July-Aug. 2012 889-908

Quality Requirements in Industrial Practice&/#x2014;An Extended Interview Study at Eleven Companies. *Berntsson Svensson, Richard*, +, TSE July-Aug. 2012 922-935

Software Development Estimation Biases: The Role of Interdependence. *Jorgensen, Magne*, +, TSE May-June 2012 677-693

StakeRare: Using Social Networks and Collaborative Filtering for Large-Scale Requirements Elicitation. *Lim, Soo Ling*, +, TSE May-June 2012 707-735

**Software metrics**


**Software performance**


**Software process improvement**


**Software prototyping**


**Software quality**


Quality Requirements in Industrial Practice&/#x2014;An Extended Interview Study at Eleven Companies. *Berntsson Svensson, Richard*, +, TSE July-Aug. 2012 922-935

**Software reliability**


**Software reusability**


+ Check author entry for coauthors
Software testing
A Static Approach to Prioritizing JUnit Test Cases. Mei, Hong, +, TSE Nov.-Dec. 2012 1258-1275
Software tools
How We Refactor, and How We Know It. Murphy-Hill, Emerson, +, TSE Jan.-Feb. 2012 5-18
Random Testing: Theoretical Results and Practical Implications. Arcuri, Andrea, +, TSE March-April 2012 258-277
Special issues and sections
Specification languages
Domain-Specific Service Selection for Composite Services. Moser, Oliver, +, TSE July-Aug. 2012 828-843
SQL
Statistical analysis
Fault Localization for Dynamic Web Applications. Artzi, Shay, +, TSE March-April 2012 314-335
Stochastic processes
Support vector machines
System documentation
System monitoring
Automatic Detection of Unsafe Dynamic Component Loadings. Kwon, Taeho, +, TSE March-April 2012 293-313
System recovery
Comparing the Defect Reduction Benefits of Code Inspection and Test-Driven Development. Wilkerson, Jerod W., +, TSE May-June 2012 547-560
Systematics
Systems analysis
Solving the Large Scale Next Release Problem with a Backbone-Based Multilevel Algorithm. Xuan, Jifeng, +, TSE Sept.-Oct. 2012 1195-1212
Taxonomy
Toward a Tool-Based Development Methodology for Pervasive Computing Applications. Cassou, Damien, +, TSE Nov.-Dec. 2012 1445-1463
Temporal logic
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608
Time factors
Trees (mathematics)
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608

Ubiquitous computing
Uncertainty handling
Unified Modeling Language
Architecture-Based Reliability Prediction with the Palladio Component Model. Brosch, Fran, +, TSE Nov.-Dec. 2012 1319-1339
User interfaces

Visualization
Voice mail
Web services
Domain-Specific Service Selection for Composite Services. Moser, Oliver, +, TSE July-Aug. 2012 828-843
Model Checking Semantically Annotated Services. Di Pietro, Ivan, +, TSE May-June 2012 592-608
On the Evolution of Services. Andrikopoulos, Vasilias, +, TSE May-June 2012 609-628
XML

+ Check author entry for coauthors