Table of Contents

Testing Methodologies

A Framework for Genetic Test-Case Generation for WS-BPEL Compositions	1
Evaluating Normalization Functions with Search Algorithms for Solving OCL Constraints	17
Lookahead-Based Approaches for Minimizing Adaptive Distinguishing Sequences	32
Plan It! Automated Security Testing Based on Planning	48
Minimum Number of Test Paths for Prime Path and Other Structural Coverage Criteria	63
Tools and Frameworks	
An Approach to Derive Usage Models Variants for Model-Based Testing	80
AUTSEG: Automatic Test Set Generator for Embedded Reactive Systems	97
Well-Defined Coverage Metrics for the Glass Box Test	113
Industrial Experiences	
Cutting Time-to-Market by Adopting Automated Regression Testing in a Simulated Environment	129

XIV Table of Contents

Testing Robotized Paint System Using Constraint Programming: An Industrial Case Study	145
What Characterizes a Good Software Tester? – A Survey in Four Norwegian Companies	161
Short Contributions	
A Customizable Monitoring Infrastructure for Hardware/Software Embedded Systems	173
Towards Testing Self-organizing, Adaptive Systems	180
Design of Prioritized N-Wise Testing Eun-Hye Choi, Takashi Kitamura, Cyrille Artho, and Yutaka Oiwa	186
Change Detection System for the Maintenance of Automated Testing $\it Miroslav~Bures$	192
On Code Coverage of Extended FSM Based Test Suites: An Initial Assessment	198
Search-Based Testing for Embedded Telecom Software with Complex Input Structures	205
Author Index	211