## Table of Contents

### Invited Papers

Architecting Fault Tolerance using Abstractions ........................................1  
*Rogerio de Lemos*

The Hammer in the Making: Graph Transformation on Networks, Molecules, and  
Diagrams .................................................................13  
*Reiko Heckel*

### Regular Papers

Secure Web Service Workflow Execution .................................................15  
*Carsten Rudolph, Nicolai Kuntze, and Zaharina Velikova*

Design of Architectures for Proximity-aware Services: Experiments in Context-  
based Authentication with Subjective Logic .......................................29  
*Gabriele Lenzini*

Towards Information Flow Properties for Distributed Systems .................45  
*Roberto Gorrieri, Fabio Martinelli, and Ilaria Matteucci*

Transparent Process Monitoring in a Virtual Environment ......................63  
*Fabrizio Baiardi, Dario Maggiori, Daniele Sgandurra, and Francesco Tamberi*

Testing-based Process for Evaluating Components Replaceability .............79  
*Andres Flores and Macario Polo*

A Graph-based Design Framework for Global Computing Systems ............93  
*Antonio Bucchiarone, Gregory Dennis, and Stefania Gnesi*

Rank and Select for Succinct Data Structures ....................................107  
*Antonio Farina, Susana Ladra, Oscar Pedreira, and Angeles S. Places*

A Nonmonotonic Soft Concurrent Constraint Language for SLA Negotiation .121  
*Stefano Bistarelli and Francesco Santini*

Strategies for Solving Constraints in Type and Effect Systems ............137  
*Jurriaan Hage and Bastiaan Heeren*

### Author Index

.................................................................155