

Table of Contents

Part 1 Distributed Algorithms

Time in Distributed System Models and Algorithms	1
<i>Paulo Veríssimo, Michel Raynal</i>	
Consensus in Asynchronous Distributed Systems: A Concise Guided Tour .	33
<i>Rachid Guerraoui, Michel Hurfin, Achour Mostefaoui, Riucarlos Oliveira, Michel Raynal, Andre Schiper</i>	
Group Communication in Partitionable Distributed Systems	48
<i>Özalp Babaoğlu, Renzo Davoli, Alberto Montresor</i>	
Enhancing Replica Management Services to Cope with Group Failures	79
<i>Paul D. Ezhilchelvan, Santosh K. Shrivastava</i>	
Recent Advances in Distributed Garbage Collection	104
<i>Marc Shapiro, Fabrice Le Fessant, Paulo Ferreira</i>	
Topology-Aware Algorithms for Large-Scale Communication	127
<i>Luís Rodrigues, Paulo Veríssimo</i>	

Part 2 Systems Architecture

Responsive Protocols for Distributed Multimedia Applications	157
<i>Fabio Panzieri, Marco Roccetti</i>	
Programming Partition-Aware Network Applications	182
<i>Özalp Babaoğlu, Alberto Bartoli, Gianluca Dini</i>	
Deploying Distributed Objects on the Internet	213
<i>Steve J. Caughey, Daniel Hagimont, David B. Ingham</i>	
Integrating Group Communication with Transactions for Implementing Persistent Replicated Objects	238
<i>Mark C. Little, Santosh K. Shrivastava</i>	
Replication of CORBA Objects	254
<i>Pascal Felber, Rachid Guerraoui, André Schiper</i>	
Constructing Dependable Web Services	277
<i>David B. Ingham, Fabio Panzieri, Santosh K. Shrivastava</i>	

Part 3 Applications Support

Support for Distributed CSCW Applications	295
<i>François J.N. Cosquer, Paulo Verissimo, Sacha Krakowiak, Loïc Decloedt</i>	
Component-Based Programming of Distributed Applications	327
<i>Valérie Issarny, Luc Bellissard, Michel Riveill, Apostolos Zarras</i>	
OPENflow: A CORBA Based Transactional Workflow System	354
<i>Stuart M. Wheeler, Santosh K. Shrivastava, Frederic Ranno</i>	
Improving the Effectiveness of Web Caching	375
<i>Jean-Marc Menaud, Valérie Issarny, Michel Banâtre</i>	
Mobility and Coordination for Distributed Java Applications	402
<i>Paolo Ciancarini, Andrea Giovannini, Davide Rossi</i>	

Part 4 Case Studies

PerDiS: Design, Implementation, and Use of a PERsistent Distributed Store	427
<i>Paulo Ferreira, Marc Shapiro, Xavier Blondel, Olivier Fambon, João Garcia, Sytse Kloosterman, Nicolas Richer, Marcus Robert, Fadi Sandakly, George Coulouris, Jean Dollimore, Paulo Guedes, Daniel Hagimont, Sacha Krakowiak</i>	
The University Student Registration System: A Case Study in Building a High-Availability Distributed Application Using General Purpose Components	453
<i>Mark C. Little, Stuart M. Wheeler, David B. Ingham, C. Richard Snow, Harry Whitfield, Santosh K. Shrivastava</i>	
Quality of Service and Electronic Newspaper: The Etel Solution	472
<i>Valérie Issarny, Michel Banâtre, Boris Charpiot, Jean-Marc Menaud</i>	
FlexiNet: A Flexible, Component-Oriented Middleware System	497
<i>Richard Hayton, Andrew Herbert</i>	
Author Index	509

Advances in Distributed Systems

Advanced Distributed Computing: From Algorithms to
Systems

Krakowiak, S.; Shrivastava, S. (Eds.)

2000, VIII, 516 p., Softcover

ISBN: 978-3-540-67196-1