Autonomous Data Synchronization in Heterogeneous Systems to Assure the Transaction p. 169

Look-Ahead Channel Reservation and Borrowing in Cellular Network Systems p. 179

Frameworks, Systems, Tools

Building Dependable Distributed Applications Using AQUA p. 189

A Framework for a Cryptographic Protocol Evaluation Workbench p. 197

The Amaranth Framework: Probabilistic, Utility-Based Quality of Service Management for High-Assurance Computing p. 207

On the Requirements of High-Integrity Code Generation p. 217

What are the Most Critical Challenges to Integrating High Assurance Systems? p. 227

What are the Most Critical Challenges to Integrating High Assurance Systems? p. 227

Metrics and Modeling

Fault Detectability Analysis for Requirements Validation of Fault Tolerant Systems p. 231

A Specification-Based Coverage Metric to Evaluate Test Sets p. 239

How Much Testing is Enough? Applying Stopping Rules to Behavioral Model Testing p. 249

A Synchronous Paradigm for Modeling Stable Reactive Systems p. 257

Should High Assurance Systems Use Software? Risk vs. Functionality p. 269

Software Systems: Consequence Versus Functionality p. 271

Why Modern Systems Should Minimize the Use of Safety Critical Software p. 272

An "In the Limit" View p. 272

Software Can Be Entrusted with High Consequence Functionality p. 273

A World without Risks: Let Me Out! p. 274

Author Index p. 275

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.