EternalS: Mission and Roadmap
Introduction to the EternalS Track: Trustworthy Eternal Systems via Evolving Software, Data and Knowledge p. 1

HATS: Highly Adaptable and Trustworthy Software Using Formal Methods p. 3
SecureChange: Security Engineering for Lifelong Evolvable Systems p. 9
3DLife: Bringing the Media Internet to Life p. 13
LivingKnowledge: Kernel Methods for Relational Learning and Semantic Modeling p. 15

Task Forces in the Eternals Coordination Action p. 20
Modeling and Analyzing Diversity: Description of EternalS Task Force 1 p. 23
Modeling and Managing System Evolution: Description of EternalS Task Force 2 p. 26
Self-adaptation and Evolution by Learning: Description of EternalS Task Force 3 p. 30

Overview of Roadmapping by EternalS p. 32
Formal Methods in Model-Driven Development for Service-Oriented and Cloud Computing p. 35

Adaptive Composition of Conversational Services through Graph Planning Encoding p. 51
Performance Prediction of Service-Oriented Systems with Layered Queueing Networks p. 66

Error Handling: From Theory to Practice p. 82
Modeling and Reasoning about Service Behaviors and Their Compositions p. 97
Design and Verification of Systems with Exogenous Coordination Using Vereofy A Case Study in Model-Based Adaptation of Web Services p. 112
Quantitative Verification in Practice p. 122

Quantitative Verification in Practice (Extended Abstract) p. 127
Ten Years of Performance Evaluation for Concurrent Systems Using CADP p. 128
Towards Dynamic Adaptation of Probabilistic Systems p. 143
UPPAAL in Practice: Quantitative Verification of a RapidIO Network p. 160
Schedulability Analysis Using Uppaal: Herschel-Planck Case Study p. 175
Model-Checking Temporal Properties of Real-Time HTL Programs p. 191

CONNECT: Status and Plans p. 206
Towards an Architecture for Runtime Interoperability p. 221
On Handling Data in Automata Learning: Considerations from the CONNECT Perspective

A Theory of Mediators for Eternal Connectors p. 236
On-The-Fly Interoperability through Automated Mediator Synthesis and Monitoring p. 251

Dependability Analysis and Verification for CONNECTed Systems p. 263
Towards a Connector Algebra p. 278
Certification of Software-Driven Medical Devices p. 293

Certification of Software-Driven Medical Devices p. 293
Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.