Foreword
Committees
Reviewers

Bounding Completion Times of Jobs with Arbitrary Release Times and Variable Execution Times

On Task Schedulability in Real-Time Control System
A Multiframe Model for Real-Time Tasks
Middleware for Distributed Industrial Real-Time Systems on ATM Networks
Analysing APEX Applications
Operating System Extensions for Dynamic Real-Time Applications
Approximate Reachability Analysis of Timed Automata
Correctness of Vehicle Control Systems - A Case Study
Reducing the number of clock variables of timed automata
Predictability of Real-Time Systems: A Process-Algebraic Approach
A Framework for Implementing Objects and Scheduling Tasks in Lock-Free Real-Time Systems
Optimizing a FIFO, Scalable Spin Lock Using Consistent Memory
The MSP.RTL Real-Time Scheduler Synthesis Tool
Tool Support for the Construction of Statically Analysable Hard Real-Time Ada Systems

High Availability in The Real-Time Publisher/Subscriber Inter-Process Communication Model
Structuring Communication Software for Quality-of-Service Guarantees
Multirate Scheduling for Guaranteed and Predictive Services in ATM Networks
Message Transmission with Timing Constraints in Ring Networks
On Supporting Time-Constrained Communications in WDMA-based Star-Coupled Optical Networks

Real-Time Queueing Theory
An Optimal Pinwheel Scheduler Using the Single-Number Reduction Technique
Integrated Scheduling of Multimedia and Hard Real-Time Tasks
Commit Processing in Distributed Real-Time Database Systems
Value-cognizant Admission Control for RTDB Systems
Scheduling Transactions with Temporal Constraints: Exploiting Data Semantics
Cache Modeling for Real-Time Software: Beyond Direct Mapped Instruction Caches
Analysis of Cache-related Preemption Delay in Fixed-priority Preemptive Scheduling

A Method for Bounding the Effect of DMA I/O Interference on Program Execution Time
A Proportional Share Resource Allocation Algorithm for Real-Time, Time-Shared Systems
Visual Assessment of a Real-Time Systems Design: A Case Study on a CNC Controller
Optimizing Interprocess Communication for Embedded Real-Time Systems

Author Index