Preface
Organizing and Program Committees
Applications of Scheduling
Real-Time Scheduling of Hierarchical Reward-Based Tasks
Real-Time Support for Mobile Robotics
Template-Based Real-Time Dwell Scheduling with Energy Constraints
Middleware
Evaluating Real-Time Java for Mission-Critical Large-Scale Embedded Systems
Feedback Control Real-Time Scheduling in ORB Middleware
Towards Predictable Real-Time Java Object Request Brokers
Tools and Methodology
VEST: An Aspect-Based Composition Tool for Real-Time Systems
Tool Set Implementation for Scenario-Based Multithreading of UML-RT Models and Experimental Validation
A Model-Based Approach to System-Level Dependency and Real-Time Analysis of Embedded Software
Operating Systems
A Cyclic-Executive-Based QoS Guarantee over USB
Kernel Support for Open QoS-Aware Computing
Practical Voltage-Scaling for Fixed-Priority RT-Systems
Power Aware Scheduling
An Integrated Approach for Applying Dynamic Voltage Scaling to Hard Real-Time Systems
Evaluation of Application-Aware Heterogeneous Embedded Systems for Performance and Energy Consumption
Collaborative Operating System and Compiler Power Management for Real-Time Applications
Modeling and Experience
Synchronous Modeling of Avionics Applications using the Signal Language
Analysis of the Execution Time Unpredictability Caused by Dynamic Branch Prediction
Modular Code Generation from Hybrid Automata Based on Data Dependency
Scheduling for Multiprocessing
Global Multiprocessor Scheduling of Aperiodic Tasks Using Time-Independent Priorities
Improving Scalability of Task Allocation and Scheduling in Large Distributed Real-Time Systems Using Shared Buffers
A Comparison of MPCP and MSRP when Sharing Resources in the Janus Multiple-Processor-on-a-Chip Platform
Quality of Service
Probabilistic Worst-Case Response-Time Analysis for the Controller Area Network
Feedback Control with Queueing-Theoretic Prediction for Relative Delay Guarantees in Web Servers
Author Index