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Nota di contenuto	Ubiquitous Computing Frameworks -- An Efficient Method to Create Business Level Events Using Complex Event Processing Based on RFID Standards -- Physical/Cyber Objects Management Framework for Multiple-Area Detectable RFID -- A Task Decomposition Scheme for Context Aggregation in Personal Smart Space -- Distributed k-NN Query Processing for Location Services -- Ontology Based Context Alignment for Heterogeneous Context Aware Services -- Community Computing Model Supporting Community Situation Based Strict Cooperation and Conflict Resolution -- Safety-Critical Systems -- Advancements in Dependable Time-Triggered Communication -- On Distributed Real-Time Scheduling in Networked Embedded Systems in the Presence of Crash Failures -- Probabilistic Optimization and Assessment of Voting Strategies for X-by-Wire Systems -- Application of Safety Analyses in Model Driven Development -- Mission Modes for Safety Critical Java -- Safety Property Analysis Techniques for Cooperating Embedded Systems Using LTS -- Validation of Embedded and Ubiquitous Systems -- Testing Embedded Control Systems with TTCN-3 -- Cross-Platform Verification Framework for Embedded

Systems -- Experimental Analysis on Time-Triggered Power Consumption Measurement with DVS-Enabled Multiple Power Domain Platform -- A Framework for Hardware-in-the-Loop Testing of an Integrated Architecture -- An Embedded Integration Prototyping System Based on Component Technique -- Ubiquitous Computing Applications -- TMO Structuring of a Networked System for Seamless Streaming and Tiled Display of High-Definition Movies -- Design and Experimental Validation of UAV Control System Software Based on the TMO Structuring Scheme -- Lifestyle Ubiquitous Gaming: Computer Games Making Daily Lives Fun -- Speech Recognition System Using DHMMs Based on Ubiquitous Environment -- Healthcare Information Management System in Home Environment -- Effective Appliance Selection by Complementary Context Feeding in Smart Home System -- Vector Graphic Reference Implementation for Embedded System -- Scheduling and Non Functional Properties -- A QoS Routing Protocol for Mobile Ad Hoc Networks Based on a Reservation Pool -- Exact Schedulability Analysis for Static-Priority Global Multiprocessor Scheduling Using Model-Checking -- Soft Real-Time Task Response Time Prediction in Dynamic Embedded Systems -- Transparent and Selective Real-Time Interrupt Services for Performance Improvement -- An Approach for Energy-Aware Management in Ubiquitous Home Network Environment -- On-Chip Bus Architecture Optimization for Multi-core SoC Systems -- An Effective Path Selection Method in Multiple Care-of Addresses MIPv6 with Parallel Delay Measurement Technique -- Self-organization and Reconfiguration -- Self-organizing Resource-Aware Clustering for Ad Hoc Networks -- Intelligent Context-Awareness System Using Improved Self-adaptive Back Propagation Algorithm -- Towards an Artificial Hormone System for Self-organizing Real-Time Task Allocation -- On Self-aware Delay Time Based Service Request Optimization for Gateway Stability in Autonomic Self-healing Systems -- Algorithmic Skeletons for the Programming of Reconfigurable Systems -- A Framework for Supporting the Configuration and Automatic Integration of Heterogeneous Location Sensors -- Service Discovery and Development Platform -- Searching Visual Media Service Providers Using ASN.1-Based Ontology Reasoning -- SharedSpace Based Service Discovery Mechanism and Its Implementation for Ubiquitous Environments -- A Study of Developing Virtual Prototyping by Using JavaBean Interface Tool and SystemC Engine -- Configurable Virtual Platform Environment Using SID Simulator and Eclipse -- Wireless Networks -- An Energy-Efficient k-Disjoint-Path Routing Algorithm for Reliable Wireless Sensor Networks -- Supporting Mobile Ubiquitous Applications with Mobility Prediction and Soft Handoff -- Event-Driven Power Management for Wireless Sensor Networks -- Time Synchronization in Wireless Sensor Network Applications -- GENSEN: A Topology Generator for Real Wireless Sensor Networks Deployment -- Energy-Aware Routing for Wireless Sensor Networks by AHP -- A Wireless System for Real-Time Environmental and Structural Monitoring -- Middleware Architectures and Virtualization -- Integrated Notification Architecture Based on Overlay Against DDoS Attacks on Convergence Network -- Making Middleware Secure on Embedded Terminals -- Dynamic Translator-Based Virtualization -- Mesovirtualization: Lightweight Virtualization Technique for Embedded Systems -- Environment Interaction -- Building a Customizable User Interface Framework Using Hyperlinks for Smart Devices -- An Efficient Location Index for the Semantic Search of Moving Objects -- Model-Driven Development of Ubiquitous Applications for Sensor-Actuator-Networks with Abstract State Machines -- Design and Implementation of Peripheral Sharing

Mechanism on Pervasive Computing with Heterogeneous Environment  
-- A Review on System Architectures for Sensor Fusion Applications.

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Sommario/riassunto

This book constitutes the thoroughly refereed post-proceedings of the 5th IFIP WG 10.2 International Workshop on Software Technologies for Future Embedded and Ubiquitous Systems, SEUS 2007, held on Santorini Island, Greece, in May 2007 in conjunction with ISORC 2007, the 10th IEEE International Symposium on Object/component/service-oriented Real-time Distributed Computing. The 31 revised full papers and 4 revised short papers presented were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on ubiquitous computing frameworks, safety-critical systems, validation of embedded and ubiquitous systems, ubiquitous computing applications, scheduling and non functional properties, self-organization and reconfiguration, service discovery and development platform, wireless networks, middleware architectures and virtualization, and environment interaction.

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