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Nota di contenuto	Power Aware Computing -- Real-Time Loop Scheduling with Energy Optimization Via DVS and ABB for Multi-core Embedded System -- A Software Framework for Energy and Performance Tradeoff in Fixed-Priority Hard Real-Time Embedded Systems -- A Shortest Time First Scheduling Mechanism for Reducing the Total Power Consumptions of an IEEE 802.11 Multiple Rate Ad Hoc Network -- Energy Efficient

Scheduling for Real-Time Systems with Mixed Workload -- Reconfigurable Embedded Systems -- Function-Level Multitasking Interface Design in an Embedded Operating System with Reconfigurable Hardware -- Task Scheduling for Context Minimization in Dynamically Reconfigurable Platforms -- Compiler Support for Dynamic Pipeline Scaling -- Parallel Network Intrusion Detection on Reconfigurable Platforms -- Wireless Networks -- Evaluating Mobility Support in ZigBee Networks -- On Using Probabilistic Forwarding to Improve HEC-Based Data Forwarding in Opportunistic Networks -- Employment of Wireless Sensor Networks for Full-Scale Ship Application -- Improving the Performance of the Wireless Data Broadcast by the Cyclic Indexing Schemes -- Real-Time/Embedded Operating Systems -- Revisiting Fixed Priority Techniques -- A Server-Side Pre-linking Mechanism for Updating Embedded Clients Dynamically -- Real-Time Scheduling Under Time-Interval Constraints -- Towards a Software Framework for Building Highly Flexible Component-Based Embedded Operating Systems -- Embedded System Architectures -- A Study on Asymmetric Operating Systems on Symmetric Multiprocessors -- An Efficient Code Generation Algorithm for Code Size Reduction Using 1-Offset P-Code Queue Computation Model -- Interconnection Synthesis of MPSoC Architecture for Gamma Cameras -- Integrated Global and Local Quality-of-Service Adaptation in Distributed, Heterogeneous Systems -- Scheduling and Resource Management -- Toward to Utilize the Heterogeneous Multiple Processors of the Chip Multiprocessor Architecture -- Consensus-Driven Distributable Thread Scheduling in Networked Embedded Systems -- Novel Radio Resource Management Scheme with Low Complexity for Multiple Antenna Wireless Network System -- Mobile Computing -- Modelling Protocols for Multiagent Interaction by F-logic -- Adding Adaptability to Mailbox-Based Mobile IP -- Palpability Support Demonstrated -- GPS-Based Location Extraction and Presence Management for Mobile Instant Messenger -- System Security -- Bilateration: An Attack-Resistant Localization Algorithm of Wireless Sensor Network -- ID-Based Key Agreement with Anonymity for Ad Hoc Networks -- Buffer Cache Level Encryption for Embedded Secure Operating System -- SOM-Based Anomaly Intrusion Detection System -- Networks Protocols -- TCP-Taichung: A RTT-Based Predictive Bandwidth Based with Optimal Shrink Factor for TCP Congestion Control in Heterogeneous Wired and Wireless Networks -- Dynamic Rate Adjustment (DRA) Algorithm for WiMAX Systems Supporting Multicast Video Services -- Efficient and Load-Balance Overlay Multicast Scheme with Path Diversity for Video Streaming -- A Cross Layer Time Slot Reservation Protocol for Wireless Networks -- Fault Tolerance -- An Efficient Handoff Strategy for Mobile Computing Checkpoint System -- A Lightweight RFID Protocol Using Substring -- The Reliability of Detection in Wireless Sensor Networks: Modeling and Analyzing -- Fast and Simple On-Line Sensor Fault Detection Scheme for Wireless Sensor Networks -- Human-Computer Interface and Data Management -- An Activity-Centered Wearable Computing Infrastructure for Intelligent Environment Applications -- Finding and Extracting Data Records from Web Pages -- Towards Transparent Personal Content Storage in Multi-service Access Networks -- Extraction and Classification of User Behavior -- HW/SW Co-design and Design Automations -- A Floorplan-Based Power Network Analysis Methodology for System-on-Chip Designs -- A Multi Variable Optimization Approach for the Design of Integrated Dependable Real-Time Embedded Systems -- SystemC-Based Design Space Exploration of a 3D Graphics Acceleration SoC for Consumer Electronics -- Optimal Allocation of I/O Device Parameters in Hardware and Software Codesign

Methodology -- Service-Aware Computing -- A Semantic P2P Framework for Building Context-Aware Applications in Multiple Smart Spaces -- Usage-Aware Search in Peer-to-Peer Systems -- A Service Query Dissemination Algorithm for Accommodating Sophisticated QoS Requirements in a Service Discovery System -- User Preference Based Service Discovery -- Sensor Networks -- An Optimal Distribution of Data Reduction in Sensor Networks with Hierarchical Caching -- MOFBAN: A Lightweight Modular Framework for Body Area Networks -- Performance Analysis for Distributed Classification Fusion Using Soft-Decision Decoding in Wireless Sensor Networks -- Ad Hoc and Sensor Networks -- Hard Constrained Vertex-Cover Communication Algorithm for WSN -- A Selective Push Algorithm for Cooperative Cache Consistency Maintenance over MANETs -- A Constrained Multipath Routing Protocol for Wireless Sensor Networks -- Ubiquitous Computing -- PerSON: A Framework for Service Overlay Network in Pervasive Environments -- Universal Adaptor: A Novel Approach to Supporting Multi-protocol Service Discovery in Pervasive Computing -- U-Interactive: A Middleware for Ubiquitous Fashionable Computer to Interact with the Ubiquitous Environment by Gestures -- Towards Context-Awareness in Ubiquitous Computing -- EmbeddedSoftware Designs -- Real-Time Embedded Software Design for Mobile and Ubiquitous Systems -- Schedulable Online Testing Framework for Real-Time Embedded Applications in VM -- Scalable Lossless High Definition Image Coding on Multicore Platforms -- Self-stabilizing Structure Forming Algorithms for Distributed Multi-robot Systems.

Sommario/riassunto

It has been widely recognized that embedded and ubiquitous computing will have tremendous impacts on many aspects of our daily life. Innovation and close collaboration between academia and industry are the keys to guaranteeing success in the development and deployment of the technology in embedded and ubiquitous computing. TheIFIP InternationalConferenceonEmbeddedandUbiquitous Computing (EUC) provides a forum for engineers and scientists in academia, industry, and governmentto address challenges and to present and discuss their ideas, results, work in progress and experience. The Technical Program Committee (TPC) of EUC 2007 was lead by the TPC Chair, Tei-Wei Kuo, and TPC Vice Chairs. A strong international TPC was formed to review and evaluate the submissions. Each paper was reviewed carefully by at least three TPC members or external reviewers. It was extremely di?cult for the TPC to select the presentations because there were so many excellent and interesting submissions. There were 217 submissions from all over the world, and only 65 papers are published in this proceedings volume.