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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynote Speech -- Research Issues in Adapting Computing to Small Devices -- Mobile Context-Aware Systems – Linking the Physical and Digital World -- Architecture -- A Data Transformations Based Approach for Optimizing Memory and Cache Locality on Distributed Memory Multiprocessors -- A Fetch Policy Maximizing Throughput and Fairness for Two-Context SMT Processors -- A Loop Transformation Using Two Parallel Region Partitioning Method -- Criticality Based

Speculation Control for Speculative Multithreaded Architectures --  
Design and Implementation of Semantic Caching Coherency Control  
Scheme Toward Distributed Environment -- Energy Efficient United L2  
Cache Design with Instruction/Data Filter Scheme -- Improving Latency  
Tolerance of Network Processors Through Simultaneous Multithreading  
-- RIMP: Runtime Implicit Predication -- Static Partitioning vs Dynamic  
Sharing of Resources in Simultaneous MultiThreading  
Microarchitectures -- Algorithm and Theory -- Autonomous-Centered  
Problem Allocation Oriented to Cooperation -- Contention-Free  
Communication Scheduling for Irregular Data Redistribution in  
Parallelizing Compilers -- Experiments on Asynchronous Partial Gauss-  
Seidel Method -- Improved Program Dependence Graph and Algorithm  
for Static Slicing Concurrent Programs -- Parallelisation of Sequential  
Programs by Invasive Composition and Aspect Weaving -- Revisiting  
the Election Problem in Asynchronous Distributed Systems --  
Scheduling Scheme with Fairness and Adaptation in the Joint Allocation  
of Heterogeneous Resources -- Solving the Symmetric Tridiagonal  
Eigenproblem Using MPI/OpenMP Hybrid Parallelization -- Trust  
Management with Safe Privilege Propagation -- Vector Space Based on  
Hierarchical Weighting: A Component Ranking Approach to Component  
Retrieval -- System and Software -- A High Availability Mechanism for  
Parallel File System -- A User-Guided Semi-automatic Parallelization  
Method and Its Implementation -- CAPU: Enhancing P2P File Sharing  
System with Capacity Aware Topology -- Implementing Component  
Persistence in CCM Based on StarPSS -- Load Balancing Design Issues  
on Prefetch-Based DSM Systems -- Task Assignment for Network  
Processor Pipelines Using GA -- Test-Suite Reduction Using Genetic  
Algorithm -- Grid Computing -- A Constellation Model for Grid  
Resource Management -- An Effective Information Service Architecture  
in Grid Environment -- An Efficient Data Management System with High  
Scalability for ChinaGrid Support Platform -- CGSP: An Extensible and  
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Developing Environment in CGSP System -- Grid Job Support System in  
CGSP -- JFreeSim: A Grid Simulation Tool Based on MTMSMR Model --  
OoML-Based Ontologies and Its Services for Information Retrieval in  
UDMGrid -- Networking -- A Hybrid Integrated QoS Multicast Routing  
Algorithm in IP/DWDM Optical Internet -- An Efficient Distributed  
Broadcasting Algorithm for Ad Hoc Networks -- Chaos-Based Dynamic  
QoS Scheme and Simulating Analysis -- Dynamic Delaunay  
Triangulation for Wireless Ad Hoc Network -- Energy Efficient Multipath  
Routing in Large Scale Sensor Networks with Multiple Sink Nodes --  
FLC: A Novel Dynamic Buffer Tuner for Shortening Service Roundtrip  
Time over the Internet by Eliminating User-Level Buffer Overflow on the  
Fly -- Intelligent Congestion Avoidance in Differentiated Service  
Networks -- Rule-Based Anomaly Detection of Inter-domain Routing  
System -- Transaction of Web Services Based on Struts -- Applied  
Technologies -- A Method of Aggregate Query Matching in Semantic  
Cache for Massive Database Applications -- A Parallel Modular  
Exponentiation Scheme for Transformed Exponents -- Content  
Selection Model for Adaptive Content Delivery -- Dynamic Service  
Provisioning for Multiplayer Online Games -- Principal Component  
Analysis for Distributed Data Sets with Updating -- Priority Conscious  
Transaction Routing in a Real-Time Shared Disks Cluster --  
Probabilistic Continuous Update Scheme in Location Dependent  
Continuous Queries -- SIP-Based Adaptive Multimedia Transmissions  
for Wired and Wireless Networks -- WM+: An Optimal Multi-pattern  
String Matching Algorithm Based on the WM Algorithm.

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Welcome to the proceedings of APPT 2005: the 6th International Workshop on Advanced Parallel Processing Technologies. APPT is a biennial workshop on parallel and distributed processing. Its scope covers all aspects of parallel and distributed computing technologies, including architectures, software systems and tools, algorithms, and applications. APPT originated from collaborations by researchers from China and Germany and has evolved to be an international workshop. APPT 2005 was the sixth in the series. The past five workshops were held in Beijing, Koblenz, Changsha, Ilmenau, and Xiamen, respectively. The Program Committee is pleased to present the proceedings for APPT 2005. This year, APPT 2005 received over 220 submissions from researchers all over the world. All the papers were peer reviewed by two to three Program Committee members on their relevance, originality, significance, technical quality, and presentation. Based on the review result, 55 high-quality papers were selected to be included in the proceedings. The papers in this volume represent the forefront of research on parallel processing and related fields by researchers from China, Germany, USA, Korea, India, and other countries. The papers accepted cover a wide range of exciting topics, including architectures, software, networking, and applications.

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