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Soggetti	Computer science Algorithms Computer networks Application software Electronic digital computers - Evaluation Software engineering Theory of Computation Computer Communication Networks Computer and Information Systems Applications System Performance and Evaluation Software Engineering
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Nota di contenuto	A Grid Resource Broker with Network Bandwidth-Aware Job Scheduling for Computational Grids -- Design of PeerSum: A Summary Service for P2P Applications -- A High-Performance Virtual Storage System for Taiwan UniGrid -- Interoperable Grid PKIs Among Untrusted Domains: An Architectural Proposal -- TCMM: Hybrid Overlay Strategy for P2P Live Streaming Services -- Fault Management in P2P-MPI -- Heterogeneous Wireless Sensor Network Deployment and Topology Control Based on Irregular Sensor Model -- Multiple Cluster Merging

and Multihop Transmission in Wireless Sensor Networks -- CFR: A Peer-to-Peer Collaborative File Repository System -- Optimal Deployment of Mobile Sensor Networks and Its Maintenance Strategy -- Server Placement in the Presence of Competition -- A Scalable Mechanism for Semantic Service Discovery in Multi-ontology Environment -- A Collaborative-Aware Task Balancing Delivery Model for Clusters -- An Improved Model for Predicting HPL Performance -- An Ad Hoc Approach to Achieve Collaborative Computing with Pervasive Devices -- Optimizing Server Placement for QoS Requirements in Hierarchical Grid Environments -- AHSEN – Autonomic Healing-Based Self Management Engine for Network Management in Hybrid Networks -- Development of a GT4-Based Resource Broker Service: An Application to On-demand Weather and Marine Forecasting -- Small-World Network Inspired Trustworthy Web Service Evaluation and Management Model -- Towards Feasible and Effective Load Sharing in a Heterogeneous Computational Grid -- Meeting QoS Requirements of Mobile Computing by Dual-Level Congestion Control -- A Transaction Model for Context-Aware Applications -- A Grid-Based Remote Experiment Environment in Civil Engineering -- Mobile Ad Hoc Grid Using Trace Based Mobility Model -- Self Managing Middleware for DynamicGrids -- Adaptive Workflow Scheduling Strategy in Service-Based Grids -- Scalable Thread Visualization for Debugging Data Races in OpenMP Programs -- MPIRace-Check: Detection of Message Races in MPI Programs -- The Modified Grid Location Service for Mobile Ad-Hoc Networks -- Authentication and Access Control Using Trust Collaboration in Pervasive Grid Environments -- Architecture-Based Autonomic Deployment of J2EE Systems in Grids -- Dynamic Workload Balancing for Collaboration Strategy in Hybrid P2P System -- Performance-Based Workload Distribution on Grid Environments -- A Visual Framework for Deploying and Managing Context-Aware Services -- Towards a Peer-To-Peer Platform for High Performance Computing -- Assessing Contention Effects on MPI_Alltoall Communications -- An Energy-Efficient Clustering Algorithm for Large-Scale Wireless Sensor Networks -- An Algorithm Testbed for the Biometrics Grid -- Task Migration in a Pervasive Multimodal Multimedia Computing System for Visually-Impaired Users -- Minimalist Object Oriented Service Discovery Protocol for Wireless Sensor Networks -- A Novel Data Grid Coherence Protocol Using Pipeline-Based Aggressive Copy Method -- A Design of Cooperation Management System to Improve Reliability in Resource Sharing Computing Environment -- A Peer-to-Peer Indexing Service for Data Grids -- A Novel Recovery Approach for Cluster Federations -- SONMAS: A Structured Overlay Network for Multidimensional Attribute Space -- Formal Specification and Implementation of an Environment for Automatic Distribution -- Dynamic Distribution for Data Storage in a P2P Network -- GRAVY: Towards Virtual File System for the Grid -- A Framework for Dynamic Deployment of Scientific Applications Based on WSRF -- Group-Based Self-organization Grid Architecture -- UR-Tree: An Efficient Index for Uncertain Data in Ubiquitous Sensor Networks -- ZebraX: A Model for Service Composition with Multiple QoS Constraints -- Middleware Support for Java Applications on Globus-Based Grids -- Component Assignment for Large Distributed Embedded Software Development -- LDFSA: A Learning-Based Dynamic Framed Slotted ALOHA for Collision Arbitration in Active RFID Systems -- Implementation of OSD Security Framework and Credential Cache -- SEMU: A Framework of Simulation Environment for Wireless Sensor Networks with Co-simulation Model -- Combining Software Agents and Grid Middleware -- A Web Service-Based Brokering Service for e-Procurement in Supply Chains -- A Thin

Client Approach to Supporting Adaptive Session Mobility -- Automatic Execution of Tasks in MiPeG -- Providing Service-Oriented Abstractions for the Wireless Sensor Grid -- Bio-inspired Grid Information System with Epidemic Tuning -- Credibility Assignment in Knowledge Grid Environment -- Image Streaming and Recognition for Vehicle Location Tracking Using Mobile Devices -- Research on Planning and Deployment Platform for Wireless Sensor Networks -- Server-Side Parallel Data Reduction and Analysis -- Parallel Edge Detection on a Virtual Hexagonal Structure.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Conference on Grid and Pervasive Computing, GPC 2007, held in Paris, France in May 2007. The 56 revised full papers and 12 revised short papers were carefully selected from 217 submissions during two rounds of reviewing and improvement. The papers address all aspects of grid and pervasive computing and focus on topics such as cluster computing, high performance computing, grid computing, semantic Web and semantic grid, service-oriented computing, peer-to-peer computing, pervasive computing, mobile computing, network storage, as well as grid and pervasive related applications.