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This book constitutes the refereed proceedings of the First International Conference on High-Performance Computing and Communications, HPCC 2005, held in Sorrento, Italy in September 2005. The 76 revised full papers and 44 revised short papers presented were carefully reviewed and selected from 273 submissions. The papers are organized in topical sections on network protocols, routing, and algorithms; languages and compilers for HPC; parallel and distributed system architectures; embedded systems; parallel and distributed algorithms; wireless and mobile computing; Web services and Internet computing; peer-to-peer computing; grid and cluster computing; reliability, fault-tolerance, and security; performance evaluation and measurement; tools and environments for software development; distributed systems and applications; high performance scientific and engineering computing; database applications and data mining; HPSRF; pervasive computing and communications; and LMS.

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Keynote Speech Alternative Approaches to High-Performance Metacomputing The EGEE Project-A Multidisciplinary, Production-Level Grid Grid and High Performance Computing:Opportunities for Bioinformatics ResearchTrack 1:Network Protocols, Routing, Algorithms On Multicast Communications with Minimum Resources A New Seamless Handoff Mechanism for Wired and Wireless Coexistence Networks Approaches to Alternate Path Routing for Short Duration Flow in MPLS Network An Elaboration on Dynamically Re-configurable Communication Protocols Using Key Identifiers Optimal Broadcast for Fully Connected Networks Cost Model Based Configuration Management Policy in OBS Networks Analytical Modeling and Comparison of AQM-Based Congestion Control Mechanisms Spatial and Traffic-Aware Routing (STAR) for Vehicular Systems Adaptive Control Architecture for Active Networks A Study on Bandwidth Guarantee Method of Subscriber Based DiffServ in Access Network Least Cost Multicast Loop Algorithm for Local Computer Network AB-Cap:A Fast Approach to Available Bandwidth Estimation An Integrated QoS Multicast Routing in IP/DWDM Optical Internet Algorithm Based on Tabu Search On Estimation for Reducing Multicast Delay VariationTrack 2:Languages and Compilers for HPC Garbage Collection in a Causal Message Logging Protocol Searching an Optimal History Size for History-Based Page Prefetching on Software DSM Systems Self-optimizing MPI Applications:A Simulation-Based ApproachTrack 3:Parallel/Distributed System ArchitecturesTrack 4:Emabedded SystemsTrack 5:Parallel/Distributed AlgorithmsTrack 6:Wireless and Mmobile ComputingTrack 7:Web Services and Internet ComputingTrack 8:Peer-to-Peer ComputingTrack 9:Grid and Cluster ComputingTrack 10:Reliability,Fault-Tolerams,and SecurityTrack 11:Performance Evaluation and MeasurementsTrack 12:Tools and Environments for Software DevelopmentTrack 13:Distributed Systems and ApplicationsTrack 14:High-Performance Scientific and Engineering ComputingTrack 15:Database Applications and Data MiningTrack 16:Biological/Molecular ComputingTrack 17:Special Session on HPSRFTrack 18:Pervasive Computing and CommunicationsTrack 19:Special Session on LMSAuthor Index

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