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Nota di contenuto	Keynote Talk I -- Bandwidth Management in Community Networks -- Web Caching -- A Generalised Cost-Aware Caching Scheme for Caching Continuous Media Objects in Best-Effort Network Environments -- Improving Web Access Efficiency Using P2P Proxies -- Web Recency Maintenance Protocol -- Tools and Techniques for Measuring and Improving Grid Performance -- Keynote Talk II -- Coarse-Grained Parallelization of Distance-Bound Smoothing for the Molecular Conformation Problem -- Distributed Computing -- Concurrent Reading and Writing with Mobile Agents -- A Fault-Tolerant Distributed Deadlock Detection Algorithm -- Performance Evaluation of a Two Level Error Recovery Scheme for Distributed Systems -- 4-

Systolic Broadcasting in a Wrapped Butterfly Network -- Keynote Talk III
 -- Understanding Wireless Mobile Systems: A Simplified Simulation
 Approach -- Wireless Networks -- On the Radiocoloring Problem --
 Efficient Algorithms for Channel Assignment in a Cellular Network --
 Channel Assignment for Wireless Networks Modelled as d-Dimensional
 Square Grids -- Efficient Location Management by Movement Prediction
 of the Mobile Host -- Mobile Ad Hoc Networks -- Multipath Routing to
 Provide Quality of Service in Mobile Ad Hoc Networks -- Energy-Aware
 On-Demand Routing for Mobile Ad Hoc Networks -- Prospects of
 Group-Based Communication in Mobile Ad hoc Networks -- Multipath
 Routing in Ad Hoc Wireless Networks with Omni Directional and
 Directional Antenna: A Comparative Study -- Wireless Mobile Systems
 -- Performance Modeling of Wireless Voice over IP -- Push Less and
 Pull the Current Highest Demanded Data Item to Decrease the Waiting
 Time in Asymmetric Communication Environments -- An Adaptive
 Resource Reservation and Distributed Admission Control Scheme for
 Mobile Networks -- On Restructuring Distributed Algorithms for Mobile
 Computing -- VLSI and Parallel Systems -- Design of Aliasing Free
 Space Compressor in BIST with Maximal Compaction Ratio Using
 Concepts of Strong and Weak Compatibilities of Response Data Outputs
 and Generalized Sequence Mergeability -- A Behavioral Synthesis Tool
 for Exploiting Fine Grain Parallelism in FPGAs -- Performance Driven
 Routing in Distributed Environment -- Performance Prediction
 Methodology for Parallel Programs with MPI in NOW Environments --
 Optical Networks -- New Scheme for Design of Static Virtual Topology
 in Wide Area Optical Networks -- A Fast Technique for Assigning
 Wavelengths in WDM All-Optical Networks (AONs) -- Design of 1-FT
 Communication Network under Budget Constraint -- Distributed
 Systems -- Approximating the Range Sum of a Graph on CREW PRAM
 -- Design and Implementation of a Soft Real Time Fault Tolerant
 System -- Expressing Constraint Models in Object Oriented Data Using
 UML and ODL -- Student Papers -- Grid Computing: The Future of
 Distributed Computing for High Performance Scientific and Business
 Applications -- A Token-Based Distributed Algorithm for Total Order
 Atomic Broadcast -- Task Allocation in Heterogeneous Computing
 Environment by Genetic Algorithm.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Workshop on Distributed Computing, IWDC 2002, held in Calcutta, India, in December 2002. The 31 revised full papers and 3 student papers presented together with 3 keynote papers were carefully reviewed and selected from more than 90 submissions. The papers are organized in topical sections on Web caching, distributed computing, wireless networks, wireless mobile systems, VLSI and parallel systems, optical networks, and distributed systems.
