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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 Butter.y 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.

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#### 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.

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