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Disciplina	004.35
Soggetti	Software engineering Architecture, Computer Computer programming Computers Algorithms Computer organization Software Engineering/Programming and Operating Systems Computer System Implementation Programming Techniques Computation by Abstract Devices Algorithm Analysis and Problem Complexity Computer Systems Organization and Communication Networks
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Theory -- A Hybrid Approach to Reaction-Diffusion Processes Simulation -- Formal Verification of Coherence for a Shared Memory Multiprocessor Model -- Static Analysis for Secrecy and Non-interference in Networks of Processes -- Consensus in One Communication Step -- Design Space Exploration for Massively Parallel Processor Arrays -- GCA: Global Cellular Automata. A Flexible Parallel Model -- Cellular-Pipelined Algorithm Architecture for Polynomial Computing -- MetaPL: A Notation System for Parallel Program Description and Performance Analysis -- First-Order 2D Cellular Neural

Networks Investigation and Learning -- Quiescent Uniform Reliable Broadcast as an Introduction to Failure Detector Oracles -- A Transaction Processing Model for the Mobile Data Access System -- Characterizing Timed Net Processes Categorically -- Mapping Heterogeneous Task Graphs onto Networks: Execution Time Optimization -- An O[n 3/z 3] Reduction Procedure for Determining the Maximum Degree of Parallelism in Parallel Applications -- Software and Architecture -- ARTCP: Efficient Algorithm for Transport Protocol for Packet Switched Networks -- Extension of Java Environment by Facilities Supporting Development of SPMD Java-Programs -- Mechanisms of Parallel Computing Organization for NeuroCluster -- Parallel SPMD-Tasks Graph Description Language for Network Clusters -- Optimizing Metacomputing with Communication-Computation Overlap -- WebCluster: A Web-Accessible Cluster Computing System Based on Coordination and Mobility -- On Using SPiDER to Examine and Debug Real-World Data-Parallel Applications -- Experimental Version of Parallel Programs Translator from Petri Nets to C++ -- Typing the ISA to Cluster the Processor -- Send-Recv Considered Harmful? Myths and Truths about Parallel Programming -- UNICORE: A Grid Computing Environment for Distributed and Parallel Computing -- Parallel Adaptive Mesh Refinement with Load Balancing for Finite Element Method -- Concurrent Implementation of Structurally Synthesized Programs -- An Associative Version of the Bellman-Ford Algorithm for Finding the Shortest Paths in Directed Graphs -- Fusion of Concurrent Invocations of Exclusive Methods -- Computational Portal: Remote Access to High-Performance Computing -- Event Logic Programming -- Techniques for Increasing Performance of CORBA Parallel Distributed Applications -- Manager-Worker Parallelism versus Dataflow in a Distributed Computer Algebra System -- Communication Interface CoIn -- Design of a Tool for Providing Dynamic Network Information to an Application -- Compilation Principle of a Specification Language Dedicated to Signal Processing -- An Approach to Composing Parallel Programs -- Web-Based Parallel Simulation of AGVs Using Java and JINI -- Applications -- On the Parallelezation of Domain Decomposition Methods for 3-D Boundary Value Problems -- Parallel Generation of Percolation Beds Based on Stochastic Cellular Automata -- Parallel Simulation of 3D Incompressible Flows and Performance Comparison for Several MPP and Cluster Platforms -- Distributed Simulation of Hybrid Systems with HLA Support -- Application of the Parallel Computing Technology to a Wave Front Model Using the Finite Element Method -- A General Parallel Computing Approach Using the Finite Element Method and the Objects Oriented Programming by Selected Data Technique -- Parallel Implementation of a Corrected DSMC Method -- Parallel Algorithms for Non-stationary Problems: Survey of New Generation of Explicit Schemes -- Tool Environments in CORBA-Based Medical High Performance Computing -- Parallel Algorithms for the Analysis of Biological Sequences -- Some Parallel Monte Carlo Algorithms -- Implementation of the Parallel Four Points Modified Explicit Group Iterative Algorithm on Shared Memory Parallel Computer -- A Parallel Expressed Sequence Tag (EST) Clustering Program -- Protein Sequence Comparison on the Instruction Systolic Array -- SCI-Based LINUX PC-Clusters as a Platform for Electromagnetic Field Calculations.