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Applications -- Scheduling in Multi-Channel Wireless Networks -- Email Shape Analysis -- Maintaining Safety in Interdomain Routing with Hierarchical Path-Categories -- Fault-tolerance and Security -- On Communication Complexity of Secure Message Transmission in Directed Networks -- On Composability of Reliable Unicast and Broadcast -- A Leader-Free Byzantine Consensus Algorithm -- Authenticated Byzantine Generals in Dual Failure Model -- Sensor Networks -- Mission-Oriented k-Coverage in Mobile Wireless Sensor Networks -- Lessons from the Sparse Sensor Network Deployment in Rural India -- A New Architecture for Hierarchical Sensor Networks with Mobile Data Collectors -- Stability Analysis of Multi-hop Routing in Sensor Networks with Mobile Sinks -- Distributed Algorithms and Optimization -- Optimizing Distributed Computing Workflows in Heterogeneous Network Environments -- Radio Network Distributed Algorithms in the Unknown Neighborhood Model -- Probabilistic Self-stabilizing Vertex Coloring in Unidirectional Anonymous Networks -- A Token-Based Solution to the Group Mutual l-Exclusion Problem in Message Passing Distributed Systems -- Peer-to-Peer Networks and Network Tracing -- The Weak Network Tracing Problem -- Poisoning the Kad Network -- Credit Reputation Propagation: A Strategy to Curb Free-Riding in a Large BitTorrent Swarm -- Formal Understanding of the Emergence of Superpeer Networks: A Complex NetworkApproach -- Parallel and Distributed Systems -- Parallelization of the Lanczos Algorithm on Multi-core Platforms -- Supporting Malleability in Parallel Architectures with Dynamic CPUSETsMapping and Dynamic MPI -- Impact of Object Operations and Relationships on Concurrency Control in DOOS -- Causal Cycle Based Communication Pattern Matching -- Wireless Networks -- Channel Assignment in Virtual Cut-through Switching Based Wireless Mesh Networks -- Efficient Multi-hop Broadcasting in Wireless Networks Using k-Shortest Path Pruning -- Bandwidth Provisioning in Infrastructure-Based Wireless Networks Employing Directional Antennas -- ROTIO+: A Modified ROTIO for Nested Network Mobility -- Applications of Distributed Systems -- VirtualConnection: Opportunistic Networking for Web on Demand -- Video Surveillance with PTZ Cameras: The Problem of Maximizing Effective Monitoring Time -- DisClus: A Distributed Clustering Technique over High Resolution Satellite Data -- Performance Evaluation of a Wormhole-Routed Algorithm for Irregular Mesh NoC Interconnect -- Optical, Cellular and Mobile Ad Hoc Networks -- Dynamic Multipath Bandwidth Provisioning with Jitter, Throughput, SLA Constraints in MPLS over WDM Network -- Path Protection in Translucent WDM Optical Networks -- Post Deployment Planning of 3G Cellular Networks through Dual Homing of NodeBs -- K-Directory Community: Reliable Service Discovery in MANET -- Theory of Distributed Systems -- An Online, Derivative-Free Optimization Approach to Auto-tuning of Computing Systems -- Consistency-Driven Probabilistic Quorum System Construction for Improving Operation Availability -- Hamiltonicity of a General OTIS Network -- Specifying Fault-Tolerance Using Split Precondition Logic -- Network Protocols -- Fast BGP Convergence Following Link/Router Failure -- On Using Network Tomography for Overlay Availability -- QoSBR: A Quality Based Routing Protocol for Wireless Mesh Networks -- An ACO Based Approach for Detection of an Optimal Attack Path in a Dynamic Environment.

| Sommario/riassunto | This book constitutes the refereed proceedings of the 11th International Conference on Distributed Computing and Networking, ICDCN 2010, held in Kolkata, India, during January 3-6, 2010. There were 169 submissions, 96 to the networking track and 73 to the |

distributed computing track. After review the committee selected 23 papers for the networking and 21 for the distributed computing track. The topics addressed are network protocol and applications, fault-tolerance and security, sensor networks, distributed algorithms and optimization, peer-to-peer networks and network tracing, parallel and distributed systems, wireless networks, applications and distributed systems, optical, cellular and mobile ad hoc networks, and theory of distributed systems.