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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	High Performance and Network Processors -- Challenges in Implementing an ESP Service -- The Role of Network Processors in Active Networks -- Towards High-Performance Active Networking -- Application of Hardware Accelerated Extensible Network Nodes for Internet Worm and Virus Protection -- High-Level Active Network

Applications -- Active Routing and Forwarding in Active IP Networks --  
A Sustainable Framework for Multimedia Data Streaming --  
Deployment of Collaborative Web Caching with Active Networks --  
Low-Level Active Network Applications -- A Retransmission Control  
Algorithm for Low-Latency UDP Stream on StreamCode-Base Active  
Networks -- TCP Enhancement Using Active Network Based Proxy  
Transport Service -- DataRouter: A Network-Layer Service for  
Application-Layer Forwarding -- Self-Organization of Active Services  
-- SORD: Self-Organizing Resource Discovery Protocol for ALAN --  
Self-Configuring Active Services for Programmable Networks -- A  
Dynamic Neighbourhood Discovery Protocol for Active Overlay  
Networks -- Experiences with Service Engineering for Active Networks  
-- Chameleon: Realizing Automatic Service Composition for Extensible  
Active Routers -- Multiple Language Family Support for Programmable  
Network Systems -- Dynamic Deployment and Configuration of  
Differentiated Services Using Active Networks -- A Globally-Applied  
Component Model for Programmable Networking -- Active Routers in  
Action: Evaluation of the LARA++ Active Router Architecture in a Real-  
Life Network -- Management in Active Networks -- A Proactive  
Management Framework in Active Clusters -- A Policy-Based  
Management Architecture for Flexible Service Deployment in Active  
Networks -- Adaptation Planning for Active Networks -- Selected  
Topics in Active Networks -- Risky Business: Motivations for Markets in  
Programmable Networks -- Context-Aware Handover Based on Active  
Network Technology -- Implementation of Adaptive Control for P2P  
Overlays.

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#### Sommario/riassunto

This volume of the LNCS series contains the proceedings of the 5th International Working Conference on Active Networks (IWAN 2003) held in the ancient cultural city of Kyoto, Japan. This year we received 73 submissions. The increasing number indicates that Active Networks continues to be an attractive field of research. Through careful reviewing and discussion, our program committee decided to fully accept 21 papers. Three papers were conditionally accepted, and were included after shepherding by members of the technical program committee. This volume thus includes these 24 papers which were presented at IWAN 2003. Additional papers were presented in a poster session at the conference. The best paper award went to Kenneth L. Calvert, James N. Grienen, Jati Imam, and Jiangbo Li (University of Kentucky) for "Challenges in Implementing an ESP Service," which begins these proceedings and which began the papers in the High Performance & Network Processors session. Papers in these proceedings are organized into seven sessions: High-Level Active Network Applications, Low-Level Active Network Applications, Self-Organization of Active Services, Management in Active Networks, Experiences with Service Engineering for Active Networks, and Selected Topics in Active Networks, ranging from risk management to context-aware handover and peer-to-peer communications.

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