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Nota di contenuto	Context-Aware Support for Mobile Systems -- Mobility Prediction for Mobile Agent-Based Service Continuity in the Wireless Internet -- Development Methodology for Location-Aware Mobile Agent -- Distributed Shared Contexts -- Support for Context-Aware Collaboration -- Context-Aware Applications and Networks -- Building Policy-Based Context Aware Applications for Mobile Environments -- Contextware Research Challenges in Ambient Networks -- Awareness on Mobile Groupware Systems -- ICoMP: A Mobile Portal Model Based

on Reflective Middleware and Mobile Agents -- Service and Network Management -- Configuration Management for Networked Reconfigurable Embedded Devices -- A Programmable Network Enabling Content Adaptation -- Agents Technology Extended with Mobile Devices -- Agent Migration as an Optional Service in an Extendable Agent Toolkit Architecture -- Grid and Agent Technologies in Mobile Environment -- Remote Database Administration in Mobile Computational Environments -- MobiGrid -- Negotiation Process for Resource Allocation in Grid Using a Multi-agent System -- Mobile Agent Oriented Software Engineering (MAOSE) -- Sensor Technologies -- A Probabilistic Transmission Control Scheme for Low Power Consumption in Sensor Networks -- Designing a Self-organizing Wireless Sensor Network -- Invited Paper -- Ambient Networks Management Challenges and Approaches -- Security Issues -- Scalability, Security Technologies and Mobile Applications -- Detecting and Proving Manipulation Attacks in Mobile Agent Systems -- MASS: A Mobile Agent Security Scheme for the Creation of Virtual Enterprises -- APHIDS: A Mobile Agent-Based Programmable Hybrid Intrusion Detection System -- Optimistic Blinded-Key Signatures for ElGamal and Related Schemes -- A Secure Framework for User Privacy in Heterogeneous Location Networks -- PEARL: A PErformance evaluAtor of cRyptographic aLgorithms for Mobile Devices -- Performance and QoS -- On the Performance of Distributed Search by Mobile Agents -- On the Feasibility of Mobile Video Services for IEEE 802.11b Multicast Networks -- An Analytical Model for Throughput of IEEE 802.11e EDCA -- Mobility Aware Systems and Services -- Introducing IP Domain Flexible Middleware Stacks for Multicast Multimedia Distribution in Heterogeneous Environments -- Mobile Tourist Guide Services with Software Agents -- Design of a Tourist Driven Bandwidth Determined MultiModal Mobile Presentation System -- Agent Technology and Applications -- AgentViz: A Visualization System for Mobile Agents -- JavaSpace: When Agents Meet Peers -- Identifying and Documenting Test Patterns from Mobile Agent Design Patterns -- A Pattern Oriented Mobile Agent Framework for Mobile Computing.

Sommario/riassunto

It is becoming quite clear that there will be important technological advances in - bile and wireless connectivity, known as third-/fourth-generation (3G and 4G) mobile telecommunications systems. As a result we will be surrounded by ever-growing m- tidomain (technical and administrative) heterogeneous communications in both wired and wireless networks. This resulting environment deals with communication in m- tizoned networks, where people, devices, appliances and servers are connected to each other via different kinds of networks. Networks will be pervasive, ubiquitous, multis- vice, multioperatorand multiaccess. The mobility trend will also be spurred forward by the growing availability of mobile-enabled handheld devices. Mobile systems are expected to provide mobile users with cost-effective, secure, yet ubiquitous service access anywhere and anytime. Users will then continue to enjoy the new-found freedom mobile access provides and will have increasingly high exp- tations of mobility-aware applications that should be capable of seamlessly supporting the mobile lifestyle. The papers in this volume discuss issues from models, platforms, and architectures for mobility-aware systems to security, mobile agent technologies, sensitive com- nications, context awareness, mobile applications and management. They cover both practical experience and novel research ideas and concepts.