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Privacy, and Trust Management; 12. Agent-Based Automated Trust Negotiation and Management for Pervasive Computing; 13. ÆTHER: Securing Ubiquitous Computing Environments; 14. Enhancing Privacy of Universal Re-Encryption Scheme for RFID Tags; PART V: Embedded Real-Time Systems; 15. Reconfigurable Microarchitecture-Based Low Power Motion Compensation for H.264/AVC
16. Automatic Synthesis and Verification of Real-Time Embedded Software for Mobile and Ubiquitous Systems17. Agent-Based Architecture on Reconfigurable System-on-Chip for Real-Time Systems; PART VI: Networking Sensing and Communications; 18. Hardware Task Scheduling for an FPGA-Based Mobile Robot in Wireless Sensor Networks; 19. Logical Location-Based Multicast Routing in Large-Scale Mobile Ad Hoc Networks; 20. Performance Analysis of Dynamic Routing Protocols for Mobile Ad Hoc Networks; 21. Analysis of Connectivity for Sensor Networks Using Geometrical Probability
22. Weighted Localized Clustering: A Coverage-Aware Reader Collision Arbitration Protocol in RFID Networks23. Coupled Simulation/Emulation for Cross-Layer Design of Mobile Robotics and Vehicular Network Applications.; 24. Dynamic Routing and Wavelength Assignment in Optical WDM Networks with Ant-Based Mobile Agents; 25. A Modular Software Architecture for Adaptable Mobile Ad Hoc Routing Strategies.; 26. Efficient Mobility Management Schemes: Distance and Direction-Based Location Update and Sectional Ring Paging; 27. Enhancing TCP Performance and Connectivity in Ad Hoc Networks; Back Cover

Sommario/riassunto

Written for those familiar with the basics and active in the area of mobile and ubiquitous computing, this volume contains papers that aid in understanding key issues and problems being tackled in the field. This text illustrates the design, implementation, and deployment of mobile and ubiquitous systems, particularly on mobile and ubiquitous environments, concepts, modeling, database components, and wireless infrastructures. It discusses new trends towards intelligent systems that aim to create software systems and discusses sensory input and multimedia information. The chapters also cover security, privacy, and trust--