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Soggetti	Computer engineering Computers Application software User interfaces (Computer systems) Computer networks Computers, Special purpose Computer Engineering Theory of Computation Information Systems Applications (incl. Internet) User Interfaces and Human Computer Interaction Computer Communication Networks Special Purpose and Application-Based Systems
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Activity Recognition -- Activity Recognition from User-Annotated Acceleration Data -- Recognizing Workshop Activity Using Body Worn Microphones and Accelerometers -- "Are You with Me?" -- Using Accelerometers to Determine If Two Devices Are Carried by the Same Person -- Context Computing -- Context Cube: Flexible and Effective Manipulation of Sensed Context Data -- A Context-Aware

Communication Platform for Smart Objects -- Siren: Context-aware Computing for Firefighting -- Near Body Interfaces -- Spectacle-Based Design of Wearable See-Through Display for Accommodation-Free Viewing -- A Compact Battery-Less Information Terminal for Real World Interaction -- Software -- INCA: A Software Infrastructure to Facilitate the Construction and Evolution of Ubiquitous Capture & Access Applications -- Sensors -- Activity Recognition in the Home Using Simple and Ubiquitous Sensors -- Automatic Calibration of Body Worn Acceleration Sensors -- Reject-Optional LVQ-Based Two-Level Classifier to Improve Reliability in Footstep Identification -- Issues with RFID Usage in Ubiquitous Computing Applications -- Security -- A Fault-Tolerant Key-Distribution Scheme for Securing Wireless Ad Hoc Networks -- ProxNet: Secure Dynamic Wireless Connection by Proximity Sensing -- Tackling Security and Privacy Issues in Radio Frequency Identification Devices -- Architectures and Systems -- Towards Wearable Autonomous Microsystems -- Ubiquitous Chip: A Rule-Based I/O Control Device for Ubiquitous Computing -- eSeal -- A System for Enhanced Electronic Assertion of Authenticity and Integrity -- Algorithms -- A Distributed Precision Based Localization Algorithm for Ad-Hoc Networks -- Adaptive On-Device Location Recognition -- Accommodating Transient Connectivity in Ad Hoc and Mobile Settings -- New Interfaces -- Microbiology Tray and Pipette Tracking as a Proactive Tangible User Interface -- Augmenting Collections of Everyday Objects: A Case Study of Clothes Hangers As an Information Display -- MirrorSpace: Using Proximity as an Interface to Video-Mediated Communication -- SearchLight -- A Lightweight Search Function for Pervasive Environments.

## Sommario/riassunto

nd Welcome to the proceedings of PERVASIVE 2004, the 2 International Conference on Pervasive Computing and the premier forum for the presentation and appraisal of the most recent and most advanced research results in all - undational and applied areas of pervasive and ubiquitous computing. Consi- ring the half-life period of technologies and knowledge this community is facing, PERVASIVE is one of the most vibrant, dynamic, and evolutionary among the computer-science-related symposia and conferences. The research challenges, e?orts, and contributions in pervasive computing have experienced a breathtaking acceleration over the past couple of years, mostly due to technological progress, growth, and a shift of paradigms in c- puter science in general. As for technological advances, a vast manifold of tiny, embedded, and autonomous computing and communication systems have st- ted to create and populate a pervasive and ubiquitous computing landscape, characterized by paradigms like autonomy, context-awareness, spontaneous - teraction, seamless integration, self-organization, ad hoc networking, invisible services, smart artifacts, and everywhere interfaces. The maturing of wireless networking, miniaturized information-processing possibilities induced by novel microprocessor technologies, low-power storage systems, smart materials, and technologies for motors, controllers, sensors, and actuators envision a future computing scenario in which almost every object in our everyday environment will be equipped with embedded processors, wireless communication facilities, and embedded software to perceive, perform, and control a multitude of tasks and functions.