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| | Nota di contenuto | IoT Technologies: State of the Art and a Software Development Framework / Takahiro Inui, Masaki Kohana, Shusuke Okamoto, and Masaru Kamada -- Increasing Effective Transmissions Using Smart Antenna Systems / Li-Ling Hung and Sheng-Han Wu -- A DTN-Based Multi-hop Network for Disaster Information Transmission / Shinya Kitada, Goshi Sato, and Yoshitaka Shibata -- Intelligent Energy Management for Environmental Monitoring Systems / Petr Musi lek, Michal Prauzek, Pavel Kromer, James Rodway, and Tomas Barton -- Smart Sensor Data Stream Delivery Technologies / Tomoya Kawakami, Yoshimasa Ishi, Tomoki Yoshihisa, and Yuuichi Teranishi -- Scalable Processing of Massive Traffic Datasets / Sergio Di Martino, Simon Kwoczek, and Wolfgang Nejdl -- Bounded Error Data Compression and Aggregation in Wireless Sensor Networks / Ray-I Chang, Meng-Han Li, Polon Chuang, and Jeng-Wei Lin -- Application of Data Analysis in Wellness and Health Sensor Network Environment / Jian-hua Yeh and Wei-ting Chen -- Electronic Health System: Sensors Emerging and Intelligent Technology Approach / Heru Susanto -- Fall Detection and Motion Classification by Using Decision Tree on Mobile Phone / Fang-Vie Leu, Chia-Yin Ko, Yi-Chen Lin, Heru Susanto, and Hsin-Chun Yu -- Approaching Hardware Solutions for Massive E-Health Sensor Data Analysis / Mario Barbareschi , Sara Romano, and Antonino Mazzeo -- A Method for Estimating Stress and Relaxed States Using a Pulse Sensor |

for QOL Visualization / Sayaka Akiyama and Yuka Kato -- Proximity-Based Service: An Advanced Way of Extending Human Proximity Awareness / Akihiro Fujihara -- WiFi Tracking of Pedestrian Behavior / Andreea-Cristina Petre, Cristian Chilipirea, Mitra Baratchi, Ciprian Dobre, and Maarten van Steen -- The Life Management Platform Achieves Data Protection and Safe Sharing / Hideyuki Shimizu, Hisashi Sakamoto, Tohru Miyazaki, and Masayoshi Kai.

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| Sommario/riassunto | Smart Sensors Networks: Communication Technologies and Intelligent Applications explores the latest sensor and sensor networks techniques and applications, showing how networked wireless sensors are used to monitor and gather intelligence from our surrounding environment. It provides a systematic look at the unique characteristics of wireless sensor networks through their usage in a broad range of areas, including healthcare for the elderly, energy consumption, industrial automation, intelligent transportation systems, smart homes and cities, and more. The book shows how sensor-networks work and how they are applied to monitor our surrounding environment. It explores the most important aspects of modern sensors technologies, providing insights on the newest technologies and the systems needed to operate them. Readers will find the book to be an entry point for understanding the fundamental differences between the various sensor technologies and their use in for different scenarios. |