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Collana	Smart Sensors, Measurement and Instrumentation, , 2194-8402 ; ; 15
Disciplina	530.8 610.28 620 621.381 621.382
Soggetti	Electronics Microelectronics Signal processing Image processing Speech processing systems Biomedical engineering Physical measurements Measurement Electronics and Microelectronics, Instrumentation Signal, Image and Speech Processing Biomedical Engineering and Bioengineering Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Wearable Electronics Sensors: Current Status and Future Opportunities -- TOTAL HEALTH: Toward Continuous Personal Monitoring -- A Novel Biometric Algorithm to Secure Body Sensor Networks -- Ultra Low-Power Hardware-Assisted Signal Screening in Wearable Systems -- Ultra Low-Power Hardware-Assisted Signal Screening in Wearable Systems -- Inexpensive and Power-Efficient Wireless Health Monitoring

System for the Aging Population -- Evidence-based Development Approach for Safe, Sustainable and Secure Mobile Medical App -- Wearable And Flexible Sensor Sheets Toward Periodic Health Monitoring -- Temperature Sensitive Fabric for Monitoring Dermal Temperature Variations -- Strain Sensors in Wearable Devices -- Probabilistic Estimation of Respiratory Rate from Wearable Sensors -- Ambient Intelligence System for The Remote Monitoring and Control of Sleep Quality -- Measurement of Human Gait Using a Wearable System with Force Sensors and Inertial Sensors -- Towards a Brain-Machine System for Auditory Scene Analysis -- Wearable Sensing for Bio-feedback in Human Robot Interaction.

Sommario/riassunto

This edited book contains invited papers from renowned experts working in the field of Wearable Electronics Sensors. It includes 14 chapters describing recent advancements in the area of Wearable Sensors, Wireless Sensors and Sensor Networks, Protocols, Topologies, Instrumentation architectures, Measurement techniques, Energy harvesting and scavenging, Signal processing, Design and Prototyping. The book will be useful for engineers, scientist and post-graduate students as a reference book for their research on wearable sensors, devices and technologies which is experiencing a period of rapid growth driven by new applications such as heart rate monitors, smart watches, tracking devices and smart glasses. .
