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Descrizione fisica	1 online resource (IX, 236 p. 140 illus., 111 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 409
Disciplina	621.381
Soggetti	Electronics Microelectronics Robotics Automation Biomedical engineering Energy harvesting Electronics and Microelectronics, Instrumentation Robotics and Automation Biomedical Engineering and Bioengineering Energy Harvesting
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	A Wireless Personal Sensor Node for Real Time Dosimetry of Interventional Radiology Operators -- A New FPGA-based Architecture for Iterative and Space-variant Image Processing -- Embedded Electronic Systems for Tactile Data Processing -- Microwave Imaging for Breast Cancer Detection: A COTS-Based Prototype -- A SystemVerilog-UVM Methodology for the Design, Simulation and Verication of Complex Readout Chips in High Energy Physics Applications -- Embedded System for In-Line Characterization of Industrial Fluids -- A Low Cost, Portable Device for Breath Analysis and Self-Monitoring, the Wise Snier.
Sommario/riassunto	This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains,

from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2015 ApplePies Conference, held in Rome, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.
