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	Titolo	Smart Sensors and Systems / / edited by Youn-Long Lin, Chong-Min Kyung, Hiroto Yasuura, Yongpan Liu
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-14711-0
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (465 p.)
	Disciplina	620
	Soggetti	Electronic circuits
		Microprocessors
		Biomedical engineering
		Circuits and Systems
		Processor Architectures
		Electronic Circuits and Devices
		Biomedical Engineering and Bioengineering
	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 at the end of each chapters.
	Nota di contenuto	"C-chip" platform for electrical biomolecular sensors -- Chemomechanical Transduction Systems: A Sensing Platform by Surface Force Measurement -- Fully Printable Organic Transistor Technology for Sensor Transducer -- The Three-Dimensional Evolution of Hyperspectral Imaging -- Computational Photography Using Programmable Aperture -- Exploratory Visual Analytics for Winter Road Management using Statistically Preprocessed Probe-Car Data -- Novel metal oxide gas sensors for mobile devices -- Handheld Gas Sensing Systems -- Odor Sensing Technologies for Visualization of Odor Quality and Space -- Energy-Harvesting Smart Sensing Systems with Supercapacitor Based Energy Storage.
	Sommario/riassunto	This book describes for readers technology used for effective sensing of our physical world and intelligent processing techniques for sensed information, which are essential to the success of Internet of Things (IoTs). The authors provide a multidisciplinary view of sensor technology from MEMS, biological, chemical, and electrical domains

and showcase smart sensor systems in real applications including smart home, transportation, medical, environmental, agricultural, etc. Unlike earlier books on sensors, this book will provide a "global" view on smart sensors covering abstraction levels from device, circuit, systems, and algorithms. .