

1. Record Nr.	UNINA9910437600903321
Titolo	Consumer depth cameras for computer vision : research topics and applications // Andrea Fossati ... [et al.], editors
Pubbl/distr/stampa	London, : Springer, 2013
ISBN	1-283-90966-9 1-4471-4640-9
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (219 p.)
Collana	Advances in computer vision and pattern recognition, , 2191-6586
Altri autori (Persone)	FossatiAndrea
Disciplina	006.3 006.3/7 006.37
Soggetti	Computer vision Photogrammetry Cameras - Calibration
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	pt. 1. 3D registration and reconstruction -- pt. 2. Human body analysis -- pt. 3. RGB-D datasets.
Sommario/riassunto	The launch of Microsoft's Kinect, the first high-resolution depth-sensing camera for the consumer market, generated considerable excitement not only among computer gamers, but also within the global community of computer vision researchers. The potential of consumer depth cameras extends well beyond entertainment and gaming, to real-world commercial applications such virtual fitting rooms, training for athletes, and assistance for the elderly. This authoritative text/reference reviews the scope and impact of this rapidly growing field, describing the most promising Kinect-based research activities, discussing significant current challenges, and showcasing exciting applications. Topics and features: Presents contributions from an international selection of preeminent authorities in their fields, from both academic and corporate research Addresses the classic problem of multi-view geometry of how to correlate images from different viewpoints to simultaneously estimate camera poses and world points Examines human pose estimation using video-rate depth

images for gaming, motion capture, 3D human body scans, and hand pose recognition for sign language parsing Provides a review of approaches to various recognition problems, including category and instance learning of objects, and human activity recognition With a Foreword by Dr. Jamie Shotton of Microsoft Research, Cambridge, UK This broad-ranging overview is a must-read for researchers and graduate students of computer vision and robotics wishing to learn more about the state of the art of this increasingly “hot” topic.
