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Titolo	Contactless Human Activity Analysis // edited by Md Atiqur Rahman Ahad, Upal Mahbub, Tauhidur Rahman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-68590-X
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (379 pages) : illustrations
Collana	Intelligent Systems Reference Library, , 1868-4408 ; ; 200
Disciplina	681.25
Soggetti	Computational intelligence Electronics Engineering - Data processing User interfaces (Computer systems) Human-computer interaction Computational Intelligence Electronics and Microelectronics, Instrumentation Data Engineering User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Vision-Based Human Activity Recognition -- Skeleton-based Activity Recognition: Preprocessing and Approaches -- Contactless Human Activity Analysis: An Overview of Different Modalities -- Signal Processing for Contactless Monitoring -- Fresnel Zone-based Theories for Contactless Sensing.
Sommario/riassunto	This book is a truly comprehensive, timely, and very much needed treatise on the conceptualization of analysis, and design of contactless & multimodal sensor-based human activities, behavior understanding & intervention. From an interaction design perspective, the book provides views and methods that allow for more safe, trustworthy, efficient, and more natural interaction with technology that will be embedded in our daily living environments. The chapters in this book cover sufficient grounds and depth in related challenges and advances in sensing, signal processing, computer vision, and mathematical modeling. It

covers multi-domain applications, including surveillance and elderly care that will be an asset to entry-level and practicing engineers and scientists.(See inside for the reviews from top experts).
