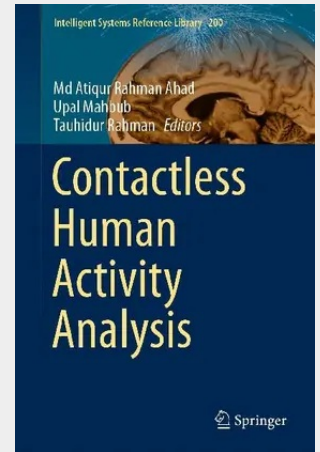


Contactless Human Activity Analysis

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*)

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.



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