Record Nr. UNISA996465347203316 Autore Yu Zhiwen **Titolo** Human Behavior Analysis: Sensing and Understanding [[electronic resource] /] / by Zhiwen Yu, Zhu Wang Singapore:,: Springer Singapore:,: Imprint: Springer,, 2020 Pubbl/distr/stampa **ISBN** 981-15-2109-3 [1st ed. 2020.] Edizione 1 online resource (X, 273 p. 92 illus., 69 illus. in color.) Descrizione fisica 150 Disciplina Soggetti Application software Data mining Personal computers Computer Appl. in Social and Behavioral Sciences Data Mining and Knowledge Discovery Personal Computing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto 1. Introduction -- 2. Main Steps of Human Behavior Sensing and Understanding -- 3. Sensor-Based Behavior Recognition -- 4. Devicefree Behavior Recognition -- 5. Individual Behavior Recognition -- 6. Group Behavior Recognition -- 7. Community Behavior Understanding -- 8. Open Issues and Emerging Trends. Sommario/riassunto Over the last decade, there has been a growing interest in human behavior analysis, motivated by societal needs such as security, natural interfaces, affective computing, and assisted living. However, the accurate and non-invasive detection and recognition of human behavior remain major challenges and the focus of many research efforts. Traditionally, in order to identify human behavior, it is first necessary to continuously collect the readings of physical sensing devices (e.g., camera, GPS, and RFID), which can be worn on human bodies, attached to objects, or deployed in the environment. Afterwards, using recognition algorithms or classification models, the behavior types can be identified so as to facilitate advanced applications. Although such traditional approaches deliver satisfactory

performance and are still widely used, most of them are intrusive and

require specific sensing devices, raising issues such as privacy and deployment costs. In this book, we will present our latest findings on non-invasive sensing and understanding of human behavior. Specifically, this book differs from existing literature in the following senses. Firstly, we focus on approaches that are based on non-invasive sensing technologies, including both sensor-based and device-free variants. Secondly, while most existing studies examine individual behaviors, we will systematically elaborate on how to understand human behaviors of various granularities, including not only individual-level but also group-level and community-level behaviors. Lastly, we will discuss the most important scientific problems and open issues involved in human behavior analysis.

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