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Titolo	Distributed computing and monitoring technologies for older patients / / by Juris Klonovs, Mohammad Ahsanul Haque, Volker Krüger, Kamal Nasrollahi, Karen Andersen-Ranberg, Thomas B. Moeslund, Erika Geraldina Spaich
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Descrizione fisica	1 online resource (112 p.)
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Disciplina	362.14
Soggetti	Medical informatics User interfaces (Computer systems) Biomedical engineering Emergency medicine Geriatrics Health Informatics User Interfaces and Human Computer Interaction Biomedical Engineering and Bioengineering Emergency Services Geriatrics/Gerontology
Lingua di pubblicazione	Inglese
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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	Introduction -- Reviews and Taxonomies -- Relevant Scenarios for Home Monitoring Solutions for Older Adults -- Monitoring Technology -- Datasets -- Discussion -- Conclusion.
Sommario/riassunto	This book summarizes various approaches for the automatic detection of health threats to older patients at home living alone. The text begins by briefly describing those who would most benefit from healthcare supervision. The book then summarizes possible scenarios for monitoring an older patient at home, deriving the common functional requirements for monitoring technology. Next, the work identifies the state of the art of technological monitoring approaches that are

practically applicable to geriatric patients. A survey is presented on a range of such interdisciplinary fields as smart homes, telemonitoring, ambient intelligence, ambient assisted living, gerontechnology, and aging-in-place technology. The book discusses relevant experimental studies, highlighting the application of sensor fusion, signal processing and machine learning techniques. Finally, the text discusses future challenges, offering a number of suggestions for further research directions.