

1. Record Nr.	UNINA9910483131203321
Titolo	Advanced Computational Intelligence in Healthcare-7 : Biomedical Informatics // edited by Ilias Maglogiannis, Sheryl Brahnam, Lakhmi C. Jain
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2020
ISBN	3-662-61114-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xii, 160 pages) : illustrations
Collana	Studies in Computational Intelligence, , 1860-949X ; ; 891
Disciplina	610.28563
Soggetti	Computational intelligence Artificial intelligence Biomedical engineering Medical informatics Computational Intelligence Artificial Intelligence Biomedical Engineering and Bioengineering Health Informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Human-Machine Interfaces for Motor Rehabilitation -- Passive Emotion Recognition Using Smartphone Sensing Data -- Intelligent and Immersive Visual Analytics of Health Data -- Interactive Key Process Indicators for obesity modelling using Process Mining -- Recent Machine Learning Approaches for single-cell RNA-seq data analysis -- A review on state-of-the-art computer-based approaches for the early recognition of malignant melanoma -- Cardiovascular Disease Stratification based on ultrasound images of the carotid artery -- Forecasting and Prevention mechanisms using Social Media in Healthcare -- Security and Privacy Issues for Intelligent Cloud-based Health Systems.
Sommario/riassunto	This book presents state-of-the-art works and systematic reviews in the emerging field of computational intelligence (CI) in electronic health care. The respective chapters present surveys and practical examples of

artificial intelligence applications in the areas of Human-Machine Interface (HMI) and affective computing, machine learning, big health data and visualization analytics, computer vision and medical image analysis. The book also addresses new and emerging topics in CI for health care such as the utilization of Social Media (SM) and the introduction of new intelligent paradigms in the security and privacy domains, which are critical for the health sector. The chapters, while of course not exhaustively addressing all the possible aspects of the aforementioned areas, are indicative of the dynamic nature of interdisciplinary research being pursued. Accordingly, the book is intended not only for researchers in the respective fields, but also for medical and administrative personnel working in the health sector, as well as managers and stakeholders responsible for making strategic decisions and defining public health policies.

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