

1.	Record Nr.	UNINA990002063360403321
	Titolo	Preservation of grains in storage : papers presented at the International Meeting on Infestation of Foodstuffd, London, 5-12 August 1947 / ed. by Stephen S. Easter
	Pubbl/distr/stampa	Roma : FAO, 1952
	Descrizione fisica	174 p. : ill. ; 23 cm
	Collana	FAO agricultural studies ; 2
	Disciplina	632.94
	Locazione	DAGEN
	Collocazione	61 IX E.6B/09
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910299057903321
	Titolo	Advanced Computational Approaches to Biomedical Engineering // edited by Punam K. Saha, Ujjwal Maulik, Subhadip Basu
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
	ISBN	3-642-41539-3
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (224 p.)
	Disciplina	004 006.3 006.37 006.6
	Soggetti	Artificial intelligence Computational intelligence Bioinformatics Optical data processing Biomathematics Artificial Intelligence Computational Intelligence Computational Biology/Bioinformatics Image Processing and Computer Vision

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I – Advanced Computational Methods -- Chap. 1 – Graph Algorithmic Techniques for Biomedical Image Segmentation -- Chap. 2 – Information Theoretic Clustering for Medical Image Segmentation -- Chap. 3 – Multiobjective Differential Evolution Based Fuzzy Clustering for MR Brain Image Segmentation -- Chap. 4 – Spectral and Non-linear Analysis of Thalamocortical Neural Mass Model Oscillatory Dynamics -- Chap. 5 – A Meta-learning Approach for Protein Function Prediction -- Part II – Biomedical Applications -- Chap. 6 – Segmentation of the Carotid Arteries from 3D Ultrasound Images -- Chap. 7 – Contemporary Problems in Quantitative Image Analysis in Structural Neuronal Plasticity -- Chap. 8 – Advanced MRI of Cartilage and Subchondral Bone in Osteoarthritis -- Chap. 9 – Computer Vision Based Hairline Mandibular Fracture Detection from Computed Tomography Images.
Sommario/riassunto	There has been rapid growth in biomedical engineering in recent decades, given advancements in medical imaging and physiological modelling and sensing systems, coupled with immense growth in computational and network technology, analytic approaches, visualization and virtual-reality, man-machine interaction, and automation. Biomedical engineering involves applying engineering principles to the medical and biological sciences, and it comprises several topics including biomedicine, medical imaging, physiological modelling and sensing, instrumentation, real-time systems, automation and control, signal processing, image reconstruction, processing and analysis, pattern recognition, and biomechanics. It holds great promise for the diagnosis and treatment of complex medical conditions, in particular, as we can now target direct clinical applications, research and development in biomedical engineering is helping us to develop innovative implants and prosthetics, create new medical imaging technologies, and improve tools and techniques for the detection, prevention and treatment of diseases. The contributing authors in this edited book present representative surveys of advances in their respective fields, focusing in particular on techniques for the analysis of complex biomedical data. The book will be a useful reference for graduate students, researchers, and industrial practitioners in computer science, biomedical engineering, and computational and molecular biology.