1. Record Nr. UNINA9910707962003321

Titolo	Acquired Immune Deficiency Syndrome prevention : hearing before the subcommittee of the Committee on Appropriations, United States Senate, One Hundred Sixth Congress, second session, special hearing
Pubbl/distr/stampa	Washington : , : U.S. Government Printing Office : , : For sale by the Superintendent of Documents, U.S. Government Printing Office, Congressional Sales Office, , 2001
Descrizione fisica	1 online resource (iii, 52 pages)
Collana	S. hrg. ; ; 106-846
Soggetti	AIDS (Disease) - United States - Prevention Legislative hearings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910882898003321

Autore	Awojoyogbe Bamidele O
Titolo	Digital Molecular Magnetic Resonance Imaging / / by Bamidele O. Awojoyogbe, Michael O. Dada
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819763702 9819763703
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (365 pages)
Collana	Series in BioEngineering, , 2196-887X
Altri autori (Persone)	DadaMichael O
Disciplina	538.362
Soggetti	Nuclear magnetic resonance Biomedical engineering Machine learning Cancer - Imaging Neural networks (Computer science) Biophysics Magnetic Resonance (NMR, EPR) Biomedical Engineering and Bioengineering Machine Learning Cancer Imaging Mathematical Models of Cognitive Processes and Neural Networks Bioanalysis and Bioimaging

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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	General Introduction -- Physics Informed Neural Networks PINNS -- New Methodology and Modelling In Magnetic Resonance Imaging -- Physics informed Neural Network for Addressing Spatial and Temporal -- Machine Learning Model for Diagnosis of Pulmonary Arterial Hypertension -- A Convolution Neural Network for Artificial Intelligence-Based Classification of Alzheimer's Diseases -- Physics informed Neural Networks for Nuclear Magnetic Resonance Guided Clinical Hyperthermia.
Sommario/riassunto	This book pushes the limits of conventional MRI visualization methods by completely changing the medical imaging landscape and leads to innovations that will help patients and healthcare providers alike. It enhances the capabilities of MRI anatomical visualization to a level that has never before been possible for researchers and clinicians. The computational and digital algorithms developed can enable a more thorough understanding of the intricate structures found within the human body, surpassing the constraints of traditional 2D methods. The Physics-informed Neural Networks as presented can enhance three-dimensional rendering for deeper understanding of the spatial relationships and subtle abnormalities of anatomical features and sets the stage for upcoming advancements that could impact a wider range of digital heath modalities. This book opens the door to ultra-powerful digital molecular MRI powered by quantum computing that can perform calculations that would take supercomputers millions of years.