

1. Record Nr.	UNINA9911015628503321
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Titolo	Adversarial Deep Generative Techniques for Early Diagnosis of Neurological Conditions and Mental Health Practises : Theoretical Insights with Practical Applications // edited by Abhishek Kumar, Fernando Ortiz-Rodriguez, Jose Braga De Vasconcelos, Pushan Kumar Dutta, Hemant Kumar Saini, Pramod Singh Rathore
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-91147-4
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (474 pages)
Collana	Information Systems Engineering and Management, , 3004-9598 ; ; 46
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Disciplina	620.00285
Soggetti	Engineering - Data processing Biomedical engineering Computational intelligence Neurosciences Data Engineering Biomedical Engineering and Bioengineering Computational Intelligence Neuroscience
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Virtual Ai Assistant Ai In Mental Healthcare -- Leveraging Deep Generative Models For Early Diagnosis And Personalized Care In Neurological And Mental Health Disorders -- A Comprehensive Review Of Deep Generative Techniques In The Study And Management Of Neurological Disorders -- Advancements In Neuroimaging And Deep Learning A Review Of Core Principles, Methodologies, And Emerging Applications -- Ethical Considerations And Regulatory Compliance In Ai Driven Diagnostics -- Neuro Imaging Based Alzheimerdisease

Detection By Segmentation With Classification Using Machine Learning Algorithms -- Neuro Imaging Based Alzheimer Disease Detection Using Generative Adversarial Model With Deep Learning Algorithm -- Early Diagnosis Of Alzheimer's Disease Using Adversarial Techniques -- Classification Of Mental Disorder With Deep Generative Models -- Practical Implementation And Integration Of Ai In Mental Healthcare.

Sommario/riassunto

This book explores a pioneering exploration of how deep generative models, including generative adversarial networks (GANs) and variational autoencoders (VAEs), renovating early neurological disorder detection. This book is a bridge between computational neuroscience and clinical neurology gaps, providing novel AI-driven methodologies for diagnosing conditions such as Alzheimer's, Parkinson's, epilepsy, and neurodevelopmental disorders. With a strong focus on neuroimaging, genomic data analysis, and biomedical informatics, the book equips researchers and practitioners with the tools to improve diagnostic accuracy and decision-making. It includes practical case studies, visual illustrations, and structured methodologies for training and validating deep learning models. Designed for neurologists, radiologists, data scientists, and AI researchers, this book is an essential resource for advancing precision medicine and next-generation healthcare innovation.
