

Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder

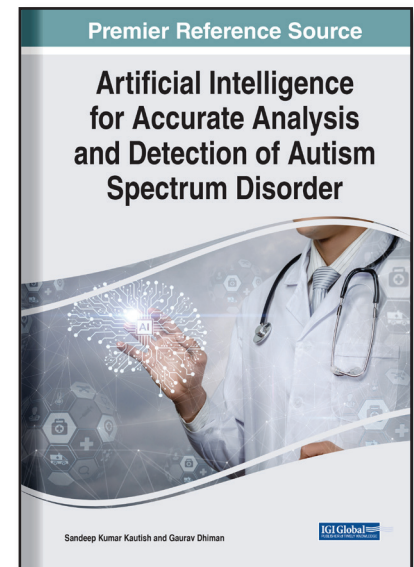
Part of the Advances in Medical Diagnosis, Treatment, and Care Book Series

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Description:

Autism spectrum disorder (ASD) is known as a neuro-disorder in which a person may face problems in interaction and communication with people, amongst other challenges. As per medical experts, ASD can be diagnosed at any stage or age but is often noticeable within the first two years of life. If caught early enough, therapies and services can be provided at this early stage instead of waiting until it is too late. ASD occurrences appear to have increased over the last couple of years leading to the need for more research in the field. It is crucial to provide researchers and clinicians with the most up-to-date information on the clinical features, etiopathogenesis, and therapeutic strategies for patients as well as to shed light on the other psychiatric conditions often associated with ASD. In addition, it is equally important to understand how to detect ASD in individuals for accurate diagnosing and early detection.

Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder discusses the early detection and diagnosis of autism spectrum disorder enabled by artificial intelligence technologies, applications, and therapies. This book will focus on the early diagnosis of ASD through artificial intelligence, such as deep learning and machine learning algorithms, for confirming diagnosis or suggesting the need for further evaluation of individuals. The chapters will also discuss the use of artificial intelligence technologies, such as medical robots, for enhancing the communication skills and the social and emotional skills of children who have been diagnosed with ASD. This book is ideally intended for IT specialists, data scientists, academicians, scholars, researchers, policymakers, medical practitioners, and students interested in how artificial intelligence is impacting the diagnosis and treatment of autism spectrum disorder.



ISBN: 9781799874607

Pages: 305

Copyright: 2021

Release Date: June, 2021

Hardcover: \$295.00

E-Book: \$295.00

**Hardcover +
E-Book:** \$355.00

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Autism Spectrum Disorder (ASD)

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Early Diagnosis of ASD
Early Intervention
Machine Learning

Medical Imaging
Medical Robotics
Predictive Analysis for ASD

Subject: Medical, Healthcare, and Life Sciences

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