Driving Smart Medical Diagnosis Through AI-Powered Technologies and Applications

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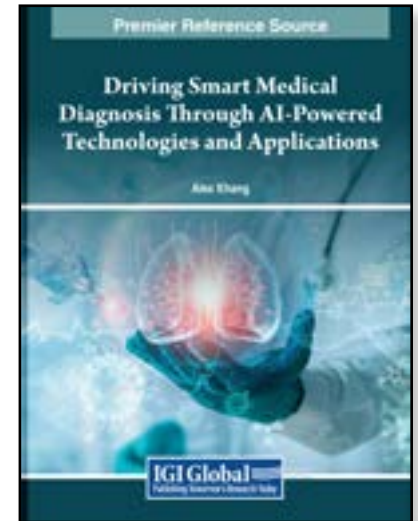
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Description:

Academic scholars face the daunting challenge of keeping pace with the rapid evolution of innovative technologies. The emergence of AI-driven solutions, deep learning frameworks, and medical robotics introduces a complex terrain, demanding in-depth understanding and analysis. As scholars navigate the intricacies of patient hate speech detection, cardiovascular diseases AI-CDSS, and the revolution in medical diagnostics, a pressing need arises for comprehensive insights that bridge the gap between theoretical knowledge and practical applications.

Driving Smart Medical Diagnosis Through AI-Powered Technologies and Applications serves as a solution in this era of transformative healthcare and addresses these challenges head-on. It unravels the complexities surrounding the implementation of AI in healthcare, offering in-depth discussions on the latest breakthroughs. From unraveling the mysteries of AI-driven cataract detection to exploring the implications of decentralized mammography classification, the book is a valuable resource that equips scholars with the knowledge to navigate this innovative landscape.

As scholars grapple with the ongoing advancements in surgical robotics, healthcare smart sensors, and the fusion of IoT and deep learning, this book serves as an indispensable guide. It provides a comprehensive overview of the current challenges but also presents innovative solutions that pave the way for a smarter, sustainable healthcare future. In the realm of data management, big data analytics, and the intersection of cybersecurity and cloud computing, our book offers a holistic perspective, making it an essential companion for scholars seeking to deepen their understanding of the transformative forces shaping the healthcare industry.

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Topics Covered:

- Advancements
- AI Algorithms
- AI-CDSS
- Artificial Intelligence
- Big Data
- Cardiovascular Diseases
- Chatbots
- Cloud Computing
- COVID-19
- Cutting-Edge Technologies
- Data Analytics
- Deep Learning
- Digital Healthcare
- Federated Learning
- Healthcare Industry

Subject: Medicine & Healthcare

Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners