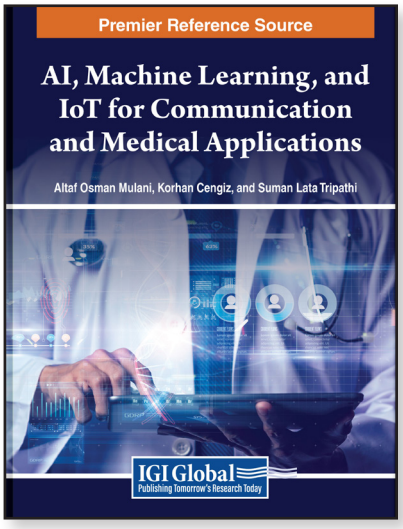
AI, Machine Learning, and IoT for Communication and Medical Applications

Part of the Advances in Computational Intelligence and Robotics Book Series

Altaf Osman Mulani (SKN Sinhgad College of Engineering, Pandharpur, India, India), Korhan Cengiz (Department of Electrical-Electronics Engineering, Istinye University, 34010, Istanbul, Turkey, UAE) and Suman Lata Tripathi (Lovely Professional University, Phagwara, Punjab, India)



Description:

The integration of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) into communication and healthcare systems presents a complex array of challenges. From data security and privacy concerns to ethical dilemmas and the need for regulatory frameworks, the adoption of these transformative technologies requires careful consideration and expertise. Additionally, the rapid pace of technological advancement often needs to improve the understanding and implementation of these innovations, leading to inefficiencies and missed opportunities in communication and medical practices.

AI, Machine Learning, and IoT for Communication and Medical Applications offers a comprehensive solution to these challenges, providing a deep dive into the applications, challenges, and implications of AI, ML, and IoT in communication and healthcare. By combining theoretical insights with practical examples, this book equips professionals and researchers with the knowledge and tools needed to navigate the complexities of these technologies. With a focus on practical applications and real-world scenarios, this book is a valuable resource for implementing AI, ML, and IoT solutions in communication systems and medical practices.

This book is a beacon of knowledge and guidance in the rapidly evolving fields of communication and healthcare. By offering a holistic view of AI, ML, and IoT and their intersection with these domains, this book empowers professionals and researchers to harness the full potential of these technologies while addressing the challenges they present. Whether you are a seasoned expert or a newcomer to these technologies, AI, Machine Learning, and IoT for Communication and Medical Applications is your essential guide to navigating the future of communication and healthcare.

ISBN: 9798369338643 **Pages:** 330 **Copyright:** 2024 **Release Date:** April, 2024

Hardcover: $315.00 **E-Book:** $315.00 **Hardcover + E-Book:** $380.00

Topics Covered:

- 5G and IoT Integration
- AI and Machine Learning in Medical Applications
- AI-driven Personalization in Communication
- AI-driven Speech Recognition and Synthesis
- Data Privacy and Security in Healthcare IoT
- Drug Discovery with Machine Learning
- Edge Computing for Efficient Communication
- Ethical Implications of AI in Healthcare
- IoT-enabled Patient Records and Data Security
- IoT-enabled Remote Patient Monitoring
- Medical Imaging Analysis with AI
- Natural Language Processing (NLP) in Communication Systems
- Predictive Analytics for Disease Outbreaks
- Regulatory Frameworks for AI in Medical Practice
- Wearable Devices in Healthcare

Subject: Computer Science & Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

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

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
Online Bookstore: www.igi-global.com
Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA

IGI Global
Publishing Tomorrow's Research Today