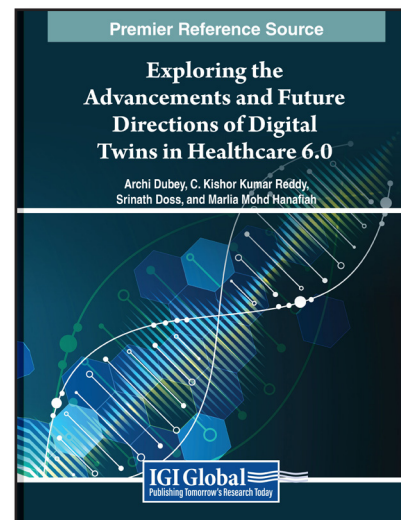


Exploring the Advancements and Future Directions of Digital Twins in Healthcare 6.0

Part of the Advances in Medical Technologies and Clinical Practice Book Series

Archi Dubey (The ICFAI University, India), C. Kishor Kumar Reddy (Stanley College of Engineering & Technology for Women, India), Srinath Doss (Botho University, Botswana) and Marlia Mohd Hanafiah (Universiti Kebangsaan Malaysia, Malaysia)



Description:

The healthcare industry is increasingly complex, demanding personalized treatments and efficient operational processes. Traditional research methods need help to keep pace with these demands, often leading to inefficiencies and suboptimal outcomes. Integrating digital twin technology presents a promising solution to these challenges, offering a virtual platform for modeling and simulating complex healthcare scenarios. However, the full potential of digital twins still needs to be explored mainly due to a lack of comprehensive guidance and practical insights for researchers and practitioners.

Exploring the Advancements and Future Directions of Digital Twins in Healthcare 6.0 is not just a theoretical exploration. It is a practical guide that bridges the gap between theory and practice, offering real-world case studies, best practices, and insights into personalized medicine, real-time patient monitoring, and healthcare process optimization. By equipping you with the knowledge and tools needed to effectively integrate digital twins into your healthcare research and operations, this book is a valuable resource for researchers, academicians, medical practitioners, scientists, and students.

As the healthcare industry transitions towards data-driven, patient-centric models, the insights presented in this book are invaluable for driving innovation and improving healthcare outcomes. By exploring the theoretical foundations and practical applications of digital twins in healthcare, this publication catalyzes transformative research, empowering readers to navigate the complexities of healthcare 6.0 with confidence and expertise.

ISBN: 9798369358931

Pages: 320

Copyright: 2024

Release Date: July, 2024

Hardcover: \$415.00

E-Book: \$415.00

**Hardcover +
E-Book:** \$500.00

Topics Covered:

- Applications in Remote Patient Monitoring
- Challenges and Innovations in Digital Twin Creation
- Communicating Value to Healthcare Executives
- Early Detection and Prevention Strategies
- Enhancing Operational Efficiency in Hospitals
- Forecasting Disease Progression
- Identifying Market Opportunities for Digital Twin Technologies
- Improving Resource Allocation with Digital Twins
- Marketing Strategies for Digital Twins in Healthcare
- Optimizing Healthcare Workflows
- Personalized Treatment Plans using Digital Twins
- Predictive Healthcare Analytics
- Real-Time Patient Monitoring and Personalized Medicine
- Understanding Healthcare Professionals' Needs

Subject: Medicine & Healthcare

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