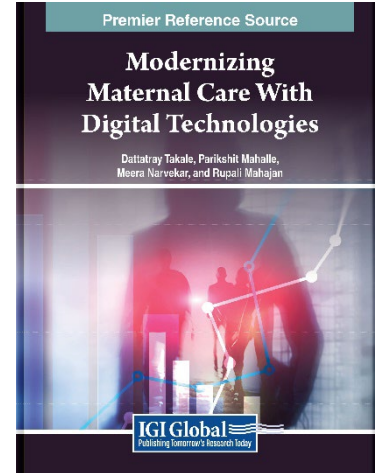# Modernizing Maternal Care With Digital Technologies

Part of Advances in Medical Technologies and Clinical Practice

Dattatray Takale (Vishwakarma Institute of Information Technology, India) Parikshit Mahalle (Vishwakarma Institute of Information Technology, India) Meera Narvekar (University of Mumbai, India) Rupali Mahajan (Vishwakarma Institute of Information Technology, India)

In the ever-evolving landscape of maternal healthcare, expectant mothers face a myriad of challenges, from pregnancy complications to postpartum care. Traditional approaches often fail to provide timely and personalized interventions, leading to suboptimal outcomes for both mother and child. The lack of practical tools and strategies to address these complexities underscores the pressing need for innovative solutions that can revolutionize maternal care.

Modernizing Maternal Care With Digital Technologies leads the way, offering a comprehensive solution that harnesses the power of modern technology and soft computing techniques to foster environments that improve maternal patient outcomes. This pioneering book delves into the transformative role of artificial intelligence (AI), data analytics, and wearable devices in reshaping maternal care. The book presents a paradigm shift in how expectant mothers can be supported throughout their pregnancy journey by highlighting the significance of predictive modeling and real-time monitoring.Through a meticulous exploration of AI-powered fetal monitoring, mental health support, and remote prenatal care, the book educates and empowers healthcare professionals, researchers, and pregnant patients. By bridging the gap between medical expertise and technological innovation, Modernizing Maternal Care With Digital Technologies equips readers with the knowledge needed to navigate the complexities of modern maternal healthcare. With its practical insights, ethical considerations, and future-oriented approach, this book paves the way for a new era in maternal care, promising healthier pregnancies, safer deliveries, and improved postpartum experiences worldwide.

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Topics Covered:

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- Ethical Considerations
- Gestational Diabetes Management
- Hypertensive Disorders
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- Neonatal Care Enhancement
- Postpartum Health Tracking
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Subject: Medicine and Healthcare
Readership Level: Advanced-Academic Level (Research Recommended)

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