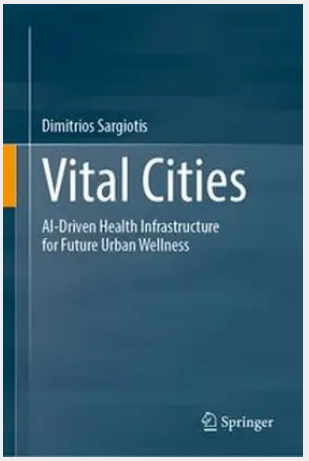
Sargiotis

Vital Cities

AI-Driven Health Infrastructure for Future Urban Wellness



This book explores the transformative role of artificial intelligence (AI) in revolutionizing urban healthcare systems. Its central objective is to illustrate how AI can reshape healthcare infrastructure, moving beyond traditional models of care into dynamic, proactive systems that anticipate and respond to the health needs of urban populations. By using the power of AI, the book envisions a future where cities can diagnose, predict, and manage health conditions on both an individual and collective scale, ensuring that healthcare systems are not only responsive but also resilient and sustainable. The book covers a wide range of subspecialties, including AI-powered diagnostic tools, intelligent resource management, predictive analytics for disease prevention, and personalized healthcare delivery. It also tackles the integration of emerging AI technologies with existing healthcare infrastructures, exploring the challenges and opportunities that arise when these systems work together. Additionally, the book addresses key ethical and governance concerns, such as data privacy, algorithmic fairness, and the societal implications of AI in healthcare, making it not only a technical exploration but a broader reflection on the future of health in urban environments. By providing both theoretical frameworks and practical applications, Vital Cities aims to guide the development of smarter, more equitable, and more sustainable urban healthcare systems powered by AI.

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