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Sommario/riassunto

Unifying the Field of Digital Twins for Urban Management presents a holistic and integrated approach to the rapidly evolving field of digital twins for urban management. The framework offers a structured approach that encompasses both theoretical underpinnings and practical applications. It aims to provide a foundation to support enhanced decision-making, optimised resource utilisation, and improved urban resilience and sustainability. The book aims to address a lack of consistency, coherence and uniformity within current approaches, and offers a unified framework to facilitate collaboration and knowledge exchange across diverse areas, such as urban management, systems thinking, data science and social science. Key features include a systematic framework (DATUM) to unify the field of digital twins for urban management coverage of theoretical foundations and a step-by-step methodology to guide digital twin-based interventions a standardised language to facilitate classification, documentation and communication of digital twin use cases validation of the DATUM framework through a combination of focus group research, case studies and action research, ensuring applicability and effectiveness. Unifying the Field of Digital Twins for Urban Management is designed for a wide audience, including digital twin practitioners, researchers, urban managers and policy makers interested in harnessing the potential of digital twins to improve urban environments.