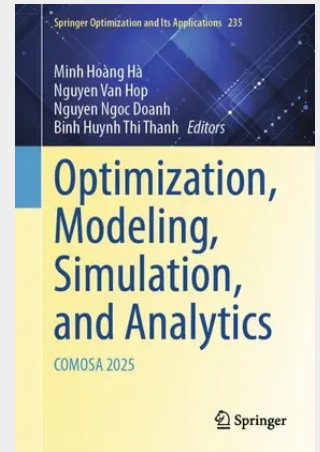


Optimization, Modeling, Simulation, and Analytics

COMOSA 2025

Emerging from the (Hanoi, Vietnam, August 15–16, 2025), this volume brings together selected studies that explore various aspects of optimization, simulation, modeling, and analytics. The contributions cover a wide spectrum of domains, including industrial engineering, supply chain management, healthcare, finance, and other related fields. The book provides a comprehensive analysis of contemporary operational challenges and state-of-the-art approaches developed to address them. The topics encompass techniques and applications in operations management, e-commerce, security, healthcare matching, and hospitality, among others. By integrating modern analytical tools—such as optimization models, simulation, data science, and artificial intelligence—the chapters illustrate how these methodologies can be effectively applied to enhance efficiency, adaptability, and sustainability in real-world systems. With its integrated and interdisciplinary perspective, this volume offers a holistic understanding of how optimization and intelligent technologies can transform complex decision-making environments. It serves as a valuable reference for researchers, practitioners, and policymakers interested in advancing analytical and optimization-based solutions to contemporary operational and managerial problems.

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