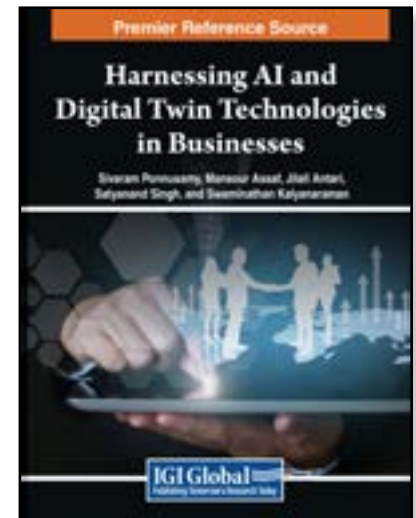# Harnessing AI and Digital Twin Technologies in Businesses

Part of the Advances in Business Information Systems and Analytics Book Series

Sivaram Ponnusamy (G H Raisoni College of Engineering, India), Mansour Assaf (The University of the South Pacifici, Fiji), Jilali Antari (Ibn Zohr Agadir University., Morocco), Satyanand Singh (Fiji National University, Fiji) and Swaminathan Kalyanaraman (University College of Engineering Pattukkottai, India)

Description:

The intersection of artificial intelligence (AI) and digital twin technology presents a problem and an unparalleled opportunity for transformation. Businesses grapple with the need for operational excellence, innovation, and a competitive edge, all while navigating the intricate web of data analytics, decision-making, and real-time monitoring.</p><p>In response to these challenges, **Harnessing AI and Digital Twin Technologies in Businesses** emerges as an example of insight and guidance, offering a comprehensive exploration of the complementary connection between AI and digital twin technology. In a world where the convergence of these powerful tools transforms business intelligence, enabling initiative-taking decision-making and dynamic simulations. This book serves as a solution for decision-makers, technologists, and researchers seeking to not only understand but harness the potential of AI-powered digital twins to enhance productivity, creativity, and judgment in their operations.

Tailored for a diverse audience, from business leaders to academics, the book delves into critical topics such as AI-driven data analytics, real-time monitoring and control, cybersecurity, and ethical considerations in AI-powered digital twin environments. As we address challenges such as integration, scalability, and return on investment, our work becomes a roadmap for the adoption of AI and digital twin technologies, providing actionable insights and strategies.

In a world where the convergence of AI and digital twins unlocks unprecedented possibilities, **Harnessing AI and Digital Twin Technologies in Businesses** brings a solution to empower businesses across industries. From innovative applications to case studies, it provides a roadmap for overcoming challenges and navigating the transformative landscape of AI and digital twin synergy. Join us on this transformative journey, where knowledge meets empowerment, and businesses seize the future with confidence and strategic foresight.

ISBN: 9798369332344   **Pages:** 320   **Copyright:** 2024   **Release Date:** February, 2024

Hardcover: **$315.00**   **E-Book:** **$380.00**   **Hardcover + E-Book:** **$380.00**

Topics Covered:

- Artificial Intelligence Driven Data Analytics
- Convergence of AI and Digital Twin in Business
- Creating Digital Twins for Enterprises
- Cybersecurity in Digital Twin Environments
- Data Security and Privacy
- Digital Twin Adoption
- Enhancing Decision-Making with Predictive Analytics
- Ethical Considerations in Digital Twin Environments
- Innovative Applications in AI and Digital Twin Synergy
- Integration, Scalability, and ROI
- Optimizing Business Processes
- Real-Time Monitoring and Control

Subject: Computer Science and Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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