

Multidisciplinary Applications of AI Robotics and Autonomous Systems

Part of the Advances in Computational Intelligence and Robotics Book Series

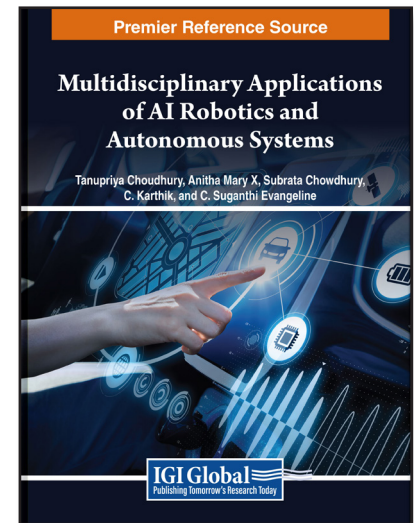
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Description:

As society transitions into the digital age, the demand for advanced robotics and autonomous systems has remained unchanged. However, the field faces significant challenges bridging the gap between current capabilities and the potential for brilliant, autonomous machines. While exact and efficient, current robotic systems need more sophistication and adaptability of human intelligence. This limitation restricts their application in complex and dynamic environments, hindering their ability to realize their potential fully.

Multidisciplinary Applications of AI Robotics and Autonomous Systems addresses these challenges by presenting cutting-edge research and innovative robotics and autonomous systems solutions. By exploring topics such as digital transformation, IoT, AI, and cloud-native computing paradigms, readers will understand the latest advancements in the field. The book delves into theoretical frameworks, computational models, and experimental approaches, offering insights to help researchers and practitioners develop more intelligent and autonomous machines.

Through a multidisciplinary approach, this book aims to inspire and guide researchers, engineers, and policymakers in advancing the field of robotics. By highlighting autonomous systems' importance and potential economic impact, the book seeks to motivate further research and development in this crucial area. With contributions from leading experts, this book provides a roadmap for the future of robotics and autonomous systems, offering innovative solutions to today's and tomorrow's challenges.



ISBN: 9798369357675

Pages: 380

Copyright: 2024

Release Date: May, 2024

Hardcover: \$300.00

E-Book: \$300.00

**Hardcover +
E-Book:** \$360.00

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