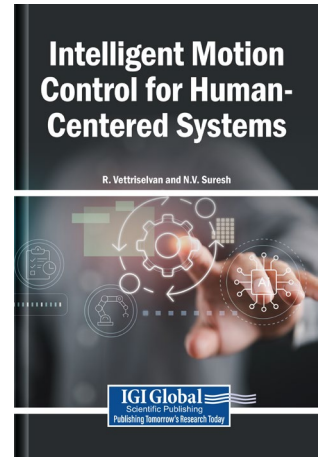


Intelligent Motion Control for Human-Centered Systems

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Description:

By integrating AI, robotics, and control engineering, motion control systems adapt to human behavior, anticipate needs, and enhance performance in applications from healthcare and assistive devices to manufacturing and autonomous vehicles. Motion control systems can become precise and responsive while capable of understanding and supporting human intentions and limitations. This interdisciplinary field bridges technology and humanity, designing intelligent systems that enhance human capabilities and improve quality of life.

Intelligent Motion Control for Human-Centered Systems explores how intelligent motion control systems can be designed to interact with humans in dynamic environments. It examines the integration of AI, robotics, and control theory to create adaptive technologies that enhance human performance, comfort, and well-being. This book covers topics such as control systems, robotics, and predictive diagnostics, and is a useful resource for business owners, engineers, academicians, researchers, and scientists.

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Hardcover: \$210 **Softcover:** \$170 **E-Book:** \$200 **Hardcover + E-Book:** \$250

Topics Covered:

3D Printing	Motion Control
Artificial Intelligence (AI)	Predictive Diagnostics
Augmented and Virtual Reality	Robotics
Blockchain	Supply Chains and Logistics
Control Systems	Wearable Technology
Human-Computer Interaction (HCI)	
Medical Technologies	
Mental Health	

Subject: Computer Science and Information Technology

Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference

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