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an Open Access Journal by MDPI

CiteScore: 5.2

Indexed in PubMed

Impact Factor: 2.0

Special Issue Reprint

Nonlinear Control Systems with Recent Advances and Applications

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In the rapidly evolving landscape of nonlinear control systems, this reprint stands as a beacon of knowledge, showcasing the remarkable progress made over the last few decades. With a focus on design methodologies and their applications, this text employs various mathematical tools to address the myriad challenges inherent in nonlinearly controlled systems. This reprint extends its reach beyond traditional boundaries, presenting applications of nonlinear control across diverse fields such as energy, health care, robotics, biology, and big data research. As technology continues to advance, nonlinear control emerges as a critical player in shaping the future of theory and technology adoption across these domains. Despite the wealth of the existing literature, synthesizing control strategies for a broader class of nonlinear systems, especially those integrated with emerging technologies in communication and computation, remains a formidable task. This reprint addresses this gap, providing a cutting-edge collection of articles that push the boundaries of both theoretical background and practical applications. With its emphasis on novel developments and the broader class of applications, this reprint opens doors to new possibilities, making it a must-read for anyone seeking to navigate the intricate challenges of nonlinear control systems in the 21st century.

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