Machine Learning Applications in Non-Conventional Machining Processes

Part of the Advances in Computational Intelligence and Robotics Book Series

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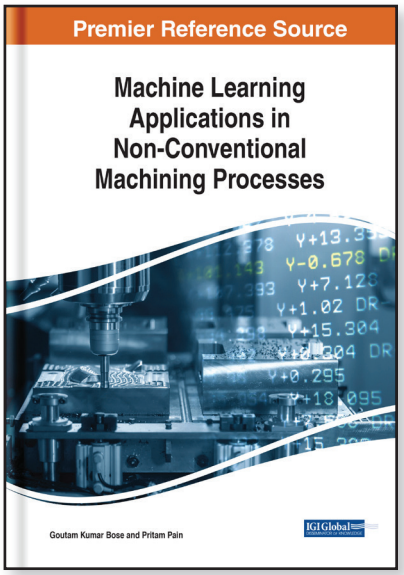

Description:

Traditional machining has many limitations in today's technology-driven world, which has caused industrial professionals to begin implementing various optimization techniques within their machining processes. The application of methods including machine learning and genetic algorithms has recently transformed the manufacturing industry and created countless opportunities in non-traditional machining methods. Significant research in this area, however, is still considerably lacking.

Machine Learning Applications in Non-Conventional Machining Processes is a collection of innovative research on the advancement of intelligent technology in industrial environments and its applications within the manufacturing field. While highlighting topics including evolutionary algorithms, micro-machining, and artificial neural networks, this book is ideally designed for researchers, academicians, engineers, managers, developers, practitioners, industrialists, and students seeking current research on intelligence-based machining processes in today's technology-driven market.

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Topics Covered:

- Artificial Intelligence
- Artificial Neural Networks
- Data Mining
- Environmental Manufacturing
- Evolutionary Algorithms
- Fuzzy Set Theory
- Hybrid Machining
- Micro-Machining
- Optimization Techniques
- Statistical Learning Algorithms

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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