

Advanced Fuzzy Logic Approaches in Engineering Science

Part of the Advances in Mechatronics and Mechanical Engineering Book Series

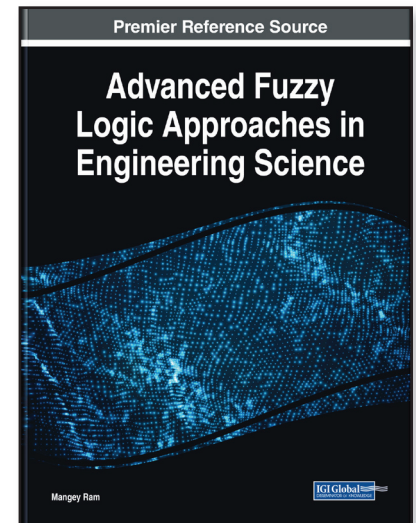
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Description:

Fuzzy logic techniques have had extraordinary growth in various engineering systems. The developments in engineering sciences have caused apprehension in modern years due to high-tech industrial processes with ever-increasing levels of complexity.

Advanced Fuzzy Logic Approaches in Engineering Science

provides innovative insights into a comprehensive range of soft fuzzy logic techniques applied in various fields of engineering problems like fuzzy sets theory, adaptive neuro fuzzy inference system, and hybrid fuzzy logic genetic algorithms belief networks in industrial and engineering settings. The content within this publication represents the work of particle swarms, fuzzy computing, and rough sets. It is a vital reference source for engineers, research scientists, academicians, and graduate-level students seeking coverage on topics centered on the applications of fuzzy logic in high-tech industrial processes.



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Topics Covered:

- Adaptive Inference System
- Fuzzy Computing
- Fuzzy Sets Theory
- Genetic Algorithms
- Hybrid Fuzzy Logic
- Neuro Fuzzy System
- Particle Swarms
- Rough Sets

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