

# Incorporating Nature-Inspired Paradigms in Computational Applications

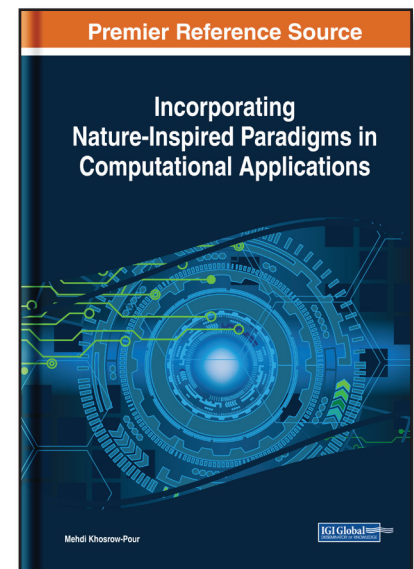
Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

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## Description:

Many techniques have been developed to control the variety of dynamic systems. To develop those control techniques, it is fundamental to know the mathematical relations between the system inputs and outputs.

**Incorporating Nature-Inspired Paradigms in Computational Applications** is a critical scholarly resource that examines the application of nature-inspired paradigms on system identification. Featuring coverage on a broad range of topics such as biogeographic computation, evolutionary control systems, and natural computing, this book is geared towards IT professionals, engineers, computer scientists, academicians, researchers, and graduate-level students seeking current research on the application of nature-inspired paradigms.



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## Topics Covered:

- Biogeographic Computation
- Evolutionary Control Systems
- Metaheuristic Algorithms
- Multi-Threshold Histogram Equalization
- Natural Computing
- Optimal Input Values
- Particle Swarm Optimization
- System Identification

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