

# Bio-Inspired Computation and Applications in Image Processing

Xin-She Yang, João Paulo Papa



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*Bio-Inspired Computation and Applications in Image Processing* summarizes the latest developments in bioinspired computation in image processing, focusing on nature-inspired algorithms that are linked with deep learning, such as ant colony optimization, particle swarm optimization, and bat and firefly algorithms that have recently emerged in the field.

In addition to documenting state-of-the-art developments, this book also discusses future research trends in bio-inspired computation, helping researchers establish new research avenues to pursue.

- Reviews the latest developments in bio-inspired computation in image processing
- Focuses on the introduction and analysis of the key bio-inspired methods and techniques
- Combines theory with real-world applications in image processing
- Helps solve complex problems in image and signal processing
- Contains a diverse range of self-contained case studies in real-world applications

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