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Zomaya, Albert Y. (Hrsg.)

Handbook of Nature-Inspired and Innovative Computing

Integrating Classical Models with Emerging Technologies

- First of its kind to address the connection between nature-inspired and traditional computing paradigms
- Brings together a number of diverse chapters that normally do not appear in the same volume since they deal with different facets of computing
- Contributors are leaders in their respective disciplines, and each was specifically instructed to cover review material as well as current developments

As computing devices proliferate, demand increases for an understanding of emerging computing paradigms and models based on natural phenomena. Neural networks, evolution-based models, quantum computing, and DNA-based computing and simulations are all a necessary part of modern computing analysis and systems development. Vast literature exists on these new paradigms and their implications for a wide array of applications. This comprehensive handbook, the first of its kind to address the connection between nature-inspired and traditional computational paradigms, is a repository of case studies dealing with different problems in computing and solutions to these problems based on nature-inspired paradigms. The "Handbook of Nature-Inspired and Innovative Computing: Integrating Classical Models with Emerging Technologies" is an essential compilation of models, methods, and algorithms for researchers, professionals, and advanced-level students working in all areas of computer science, IT, biocomputing, and network engineering.

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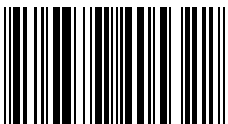
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