



# **Solutions to Parallel and Distributed Computing Problems: Lessons from Biological Sciences (Wiley Series on Parallel and Distributed Computing)**

*Albert Y. Zomaya, Fikret Ercal, Stephan Olariu*

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Solving problems in parallel and distributed computing through the use of bio-inspired techniques. Recent years have seen a surge of interest in computational methods patterned after natural phenomena, with biologically inspired techniques such as fuzzy logic, neural networks, simulated annealing, genetic algorithms, or evolutionary computer models increasingly being harnessed for problem solving in parallel and distributed computing. *Solutions to Parallel and Distributed Computing Problems* presents a comprehensive review of the state of the art in the field, providing researchers and practitioners with critical information on the use of bio-inspired techniques for improving software and hardware design in high-performance computing. Through contributions from top leaders in the field, this important book brings together current research results, exploring some of the most intriguing and cutting-edge topics from the world of biocomputing, including:

- \* Parallel and distributed computing of cellular automata and evolutionary algorithms
- \* How the speedup of bio-inspired algorithms will help their applicability in a wide range of problems
- \* Solving problems in parallel simulation through such techniques as simulated annealing algorithms and genetic algorithms
- \* Techniques for solving scheduling and load-balancing problems in parallel and distributed computers
- \* Applying neural networks for problem solving in wireless communication systems

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