

META-HEURISTIC ALGORITHMS FOR **ADVANCED DISTRIBUTED SYSTEMS**

EDITED BY

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Meta-Heuristic Algorithms for Advanced Distributed Systems

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About the Book

The main aim of using a distributed system is to simplify the problem of computation by sharing a common objective and distribute the complex problem into many simpler problems. The failure of each component is independent of the failure of the other components, and hence a distributed system is very reliable. Further, a distributed system may be scaled as per requirements. But a distributed system suffers from overhead more than a basic centralized system, and there is an issue of security and troubleshooting due to the distributed computing in the system.

Meta-heuristic techniques have a huge scope in optimization, and hence they may be applied to increase the efficiency of the distributed system and also to minimize cost and time. These intelligent techniques are based on global and local search and are very simple to apply. Various kinds of meta-heuristic techniques are derived from nature, and hence a lot of development is going on in this field.

This book will focus on the existing/modified/innovative meta-heuristic techniques for optimization purposes in various kinds of distributed systems.

About the Editors

Dr. Rohit Anand is currently working as an assistant professor in the Department of Electronics and Communication Engineering at G.B. Pant DSEU Okhla-1 Campus (formerly G.B.Pant Engineering College), Government of NCT of Delhi, New Delhi, India. He was awarded his PhD in the field of microwave and optimization. He has more than 19 years of teaching experience, including teaching undergraduate and graduate courses. He is a life member of the Indian Society for Technical Education (ISTE). He has published 6 book chapters, 12 papers in Scopus/SCI-indexed journals, more than 20 papers in international conferences, and 4 patents. He has chaired a session in fourteen international conferences. His research areas include electromagnetic field theory, antenna theory and design, optimization, wireless communication, image processing, optical fiber communication, IoT.

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