1. Record Nr. UNINA9910913787103321 Autore Raza Khalid Titolo Solving with Bees: Transformative Applications of Artificial Bee Colony Algorithm / / edited by Khalid Raza Singapore:,: Springer Nature Singapore:,: Imprint: Springer,, 2024 Pubbl/distr/stampa 9789819773442 **ISBN** 981977344X Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (212 pages) Collana Springer Tracts in Nature-Inspired Computing, , 2524-5538 Disciplina 006.3 Soggetti Computational intelligence Artificial intelligence Image processing Computational Intelligence Artificial Intelligence Image Processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Fundamentals of Artificial Bee Colony Algorithms and Its Variants --Nota di contenuto The Rise of Artificial Bee Colony Algorithms in Data Science and Machine Learning is Notable -- Swarm Intelligence for Optimization: A Bee's-Eye View on Multi-objective and Dynamic Challenges -- Artificial Bee Colony Algorithms in Control Systems, Robotics and Automation --Integrating Artificial Bee Colony Algorithms for Deep Learning Model Optimization: A Comprehensive Review -- An IoMT Enabled Iterative Artificial Bee Colony Approach Using Federated Learning for Detection of Heart Disease -- Optimal Design of a Biomedical Amplifier for Minimum Offset Using a Modified ABC Algorithm -- Using Honeybees for Gene Expression Profiling: The Artificial Bee Colony Algorithm to Identify Robust Gene Biomarkers for Clinical Diagnosis -- Smart

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Algorithms in Gene Expression Studies: A Case Study -- Artificial Bee

This book is a comprehensive volume, which delves into the versatile

Algorithms into Medical Image Analysis -- Artificial Bee Colony

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Sommario/riassunto

world of Artificial Bee Colony (ABC) algorithms, their variants, and myriad applications in a wide range of fields. This book is designed to be an essential resource for researchers, practitioners, students, and anyone intrigued by the fascinating realm of swarm intelligence and optimization. This book serves as a bridge between the theoretical foundations of ABC algorithms and their practical implementations across diverse domains. The book offers a deep understanding of these algorithms and how they can be harnessed to tackle complex real-world challenges.