1. Record Nr. UNISA996465464103316

Titolo	Bio-inspired Computing: Theories and Applications [[electronic resource]] : 14th International Conference, BIC-TA 2019, Zhengzhou, China, November 22–25, 2019, Revised Selected Papers, Part I / / edited by Linqiang Pan, Jing Liang, Boyang Qu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-3425-X
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIV, 775 p. 261 illus., 168 illus. in color.)
Collana	Communications in Computer and Information Science, , 1865-0929 ; ; 1159
Disciplina	006
Soggetti	Artificial intelligence Algorithms Numerical analysis Computers Computer communication systems Optical data processing Artificial Intelligence Algorithm Analysis and Problem Complexity Numeric Computing Information Systems and Communication Service Computer Communication Networks Computer Imaging, Vision, Pattern Recognition and Graphics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Review on the Improvement and Application of Ant Colony Algorithm -- Experimental analysis of selective imitation for multifactorial dierential evolution -- Brain Storm Optimization Algorithm with Estimation of Distribution -- Tentative Study on Solving Impulse Control Equations of Plant-pest-predator Model with Dierential Evolution Algorithm -- Microgrid Frequency Control Based on Genetic and Fuzzy Logic Hybrid Optimization -- Using Multi-Objective Particle Swarm Optimization to Solve Dynamic Economic Emission Dispatch

Considering Wind Power and Electric Vehicles -- Evolutionary Optimization of Three-degree Inuence Spread In Social Networks Based on DiscreteBacterial Foraging Optimization Algorithm -- Ant Colony Algorithm Based on Upper Bound of Nodes for Robot Path Planning Problems -- Adaptive Brain Storm Optimization Based on Learning Automata -- A reference point-based evolutionary algorithm for many-objective fuzzy portfolio selection -- Hybrid Bacterial Forging Optimization based on Articial Fish Swarm Algorithm and Gaussian Disturbance -- Research on Multiobjective Optimization Strategy of Economic/Environmental Energy Management for Multi-Energy Ship Based on MOEA/D -- Many-objective Evolutionary Optimization based Economic Dispatch of Integrated Energy Systemwith Multi-microgrid and CHP -- Multiobjective Particle Swarm Optimization with Directional Search for Distributed PermutationFlow Shop Scheduling Problem -- An Improved Pigeon-Inspired Optimization Combining Adaptive Inertia Weight with a One-Dimension Modication Mechanism -- ESAE: Evolutionary Strategy-based Architecture Evolution -- Species-based dierential evolution with migration for multimodal optimization -- An Enhanced Bacterial Foraging Optimization Based on Levy Flight and Improved Roulette Wheel Selection -- Three-Dimensional Packing Algorithm of Single Container Based on Genetic Algorithm -- A Hybrid Ant Colony Optimization Algorithm for the Fleet Size and Mix Vehicle Routing Problemwith Time Windows -- Multi-Subpopulation Algorithm with Ensemble Mutation Strategies for Protein Structure Prediction -- A Multi-Objective Bat Algorithm for Software Defect Prediction -- Mutation Strategy Selection Based on Fitness Landscape Analysis : A Preliminary Study -- Ensemble Learning Based on Multimodal Multiobjective Optimization -- Aircraft scheduling problems based on genetic algorithms -- Estimating Approximation Errors of Elitist Evolutionary Algorithms -- Research on Two-level Inventory Optimization Algorithm for Repairable Spare Parts Based onImproved Dierential Evolution -- A clustering-based multiobjective evolutionary algorithm for balancing exploration and exploitation -- An Improved Squirrel Search Algorithm with Reproduction and Competition Mechanisms -- Modied Self-adaptive Brain Storm Optimization Algorithm for Multimodal Optimization -- Recent Bio-inspired Algorithms for Solving Flexible Job Shop Scheduling Problem: A Comparative Study -- Unidirectional Cyclic Network Architecture for Distributed Evolution -- A Re-initialization Clustering-based Adaptive Dierential Evolution for Nonlinear Equations Systems -- Ensemble Learning via Multimodal Multiobjective Dierential Evolution and Feature Selection -- A Knee Point based NSGA-II Multi-objective Evolutionary Algorithm -- A Cell Potential and Motion Pattern driven Multi-Robot Coverage Path Planning Algorithm -- Task Set Scheduling of Airport Freight StationBased on Parallel Articial Bee ColonyAlgorithm -- Water Wave Optimization With Self-Adaptive Directed Propagation -- An Unbiased Buttery Oplimizatlon Algorilhm -- On-chip health monitoring based on DE-Cluster in 2.5D ICs -- Multi-AGV Collision Avoidance Path Optimization for Unmanned Warehouse Based on ImprovedAnt Colony Algorithm -- An Improved Competitive Swarm Optimizer for Large Scale Optimization -- MEAPCA: A multi-population evolutionary algorithm based on PCA for multi-objective optimization -- A Novel Genetic Algorithm With Population Perturbation and Elimination for Multi-Satellite T-T&C Scheduling Problem -- A Novel Grey Wolf Optimization Based Combined Feature Selection Method -- Improved discrete articial bee colony algorithm -- UAV 3D Path Planning Based on Multi-population Ensemble Dierential Evolution -- Multi-objective Feature Selection based on

Articial Bee Colony for Hyperspectral Images -- Meta-Heuristic Hybrid Algorithmic Approach for Solving Combinatorial Optimization Problem (TSP) -- An Eective Two-stage Optimization Method based on NSGA-II for Green Multi-Objective Inte-grated Process Planning and Scheduling Problem -- An Improved Multi-objective Particle Swarm Optimization with Adaptive Penalty Value for Feature Selection -- An Adaptive Brain Storm Optimization Algorithm based on Heuristic Operators for TSP -- A Modied JAYA Algorithm for Optimization in Brushless DC Wheel Motor -- Genetic Action Sequence for Integration of Agent Actions -- Based on fuzzy non-dominant and sparse individuals to improve many-objective dierential evolutionary -- KnEA with Ensemble Approach for Parameter Selection for Many-objective Optimization -- Decomposition based dierentiate evolution algorithm with niching strategy for Multimodal Multi-objective Optimization -- A Bacterial Foraging Framework for AgentBased Modeling -- A Modied Memetic Algorithm for Multi-depot Green Capacitated Arc Routing Problem -- Multi-objective Pick-up Point Location Optimization Based on A Modied Genetic Algorithm -- Ecient Evolutionary Neural Architecture Search (NAS) by Modular Inheritable Crossover. .

Sommario/riassunto

This two-volume set (CCIS 1159 and CCIS 1160) constitutes the proceedings of the 14th International Conference on Bio-inspired Computing: Theories and Applications, BIC-TA 2019, held in Zhengzhou, China, in November 2019. The 121 full papers presented in both volumes were selected from 197 submissions. The papers are organized according to the topical headings: evolutionary computation and swarm intelligence; bioinformatics and systems biology; complex networks; DNA and molecular computing; neural networks and articial intelligence.

2. Record Nr. UNINA9910887801703321

Titolo	Revolutionizing Healthcare: AI Integration with IoT for Enhanced Patient Outcomes / / edited by Shashi Kant Gupta, Dimitrios A. Karras, Rajesh Natarajan
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031650222 3031650220
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (406 pages)
Collana	Information Systems Engineering and Management, , 3004-9598 ; ; 7
Disciplina	610.285
Soggetti	Computational intelligence Artificial intelligence Public health Medicine - Research Biology - Research Medical sciences Computational Intelligence Artificial Intelligence Public Health Biomedical Research Health Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. PATIENT HEALTH SERVICES FOR EARLY DETECTION THERAPY OF DIABETES MELLITUS WITH EXPERT SYSTEM AND IOT -- Chapter 2. Exploring AI and IoT Integration for Medicine Recommendation with Chimp Optimized Dynamic XGBoost (CO-DXB) -- Chapter 3. Integrating IoT and AI in Healthcare: A Novel MS-GNN Framework for Disease Diagnosis -- Chapter 4. Advancing Glioblastoma Treatment through AI-Driven Radiomics: A Comparative Study of Feature Selection and Machine Learning Techniques -- Chapter 5. Utilizing Artificial Intelligence for Enhanced Healthcare Diagnosis and Treatment -- Chapter 6. Artificial Intelligence in Personalized Health Services for

Better Patient Care -- Chapter 7. Transforming Healthcare: The Synergistic Fusion of AI and IoT for Intelligent, Personalized Well-being -- Chapter 8. Machine Learning-Based Autism Spectrum Disorder Prediction: A Comparative Approach -- Chapter 9. The Future of Healthcare: Using AI and IoT to Drive Data Driven Revolution -- Chapter 10. Preventive Health Care System for Early Heart Disease Detection using IoT and Machine Learning -- Chapter 11. IoT in Daily Life: Investigating the Impact of IoT on Procrastination, Well-being, Mental Health, and Healthcare Wizards -- Chapter 12 . AI Innovations in Health Care: Reshaping Diagnostics and Care -- Chapter 13. Statistical Distribution of Blood Glucose Levels in Diabetic Patients Diagnosis Using ML-Based PCA Methods -- Chapter 14. IoT-Infused Care: Disentanglement Family Dynamics and Coping Strategies in the Realm of Intellectually Disabled Children -- Chapter 15. An Approach to Pattern Prediction and Early Recognition of Lung Cancer Employing Machine Learning Techniques -- Chapter 16. Unlocking the Potential: Biometric Traits in Healthcare with a Focus on Eye Diseases -- Chapter 17. Pixels, Perspectives, and Psychological Strain: Unravelling the Link Between Negative Body Image, Internet of Things (IOT), and Mental Health Challenges in Student Population -- Chapter 18. DNA-Based Secure Image Transmission Framework Using Encryption and LSB Steganography -- Chapter 19. Building Predictive Models for Cardiovascular Health -- Chapter 20. Transforming Healthcare: The Convergence of IoT and AI.

Sommario/riassunto

This book showcases an endeavor to delve into the fusion of artificial intelligence (AI) and the Internet of Things (IoT) within the healthcare domain. The healthcare sector is currently experiencing a shift fueled by technological advancements and a heightened focus on providing tailored, efficient and impactful care to individuals. AI and IoT have emerged as facilitators of this evolution presenting opportunities to elevate patient results streamline operations and enhance decision-making within healthcare environments. This publication unites an array of viewpoints from experts in healthcare, technology and research domains. Through an array of enlightening chapters readers will embark on a journey exploring the applications, hurdles and consequences of merging AI with IoT in healthcare contexts. From analytics and remote monitoring to treatment suggestions and operational enhancements the potentials offered by AI and IoT is both captivating and revolutionary. As editors overseeing this volume’s creation we take pride in presenting an assemblage of contributions that mirror the research findings, innovations and optimal practices in healthcare technology. Our aim is to encourage readers to engage in thinking, creativity and teamwork when considering the impact of integrating AI with IoT on enhancing patient care and healthcare services.