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Nota di contenuto	Neural Networks -- Pattern Recognition -- Image Processing -- Intelligent Computing in Robotics -- Intelligent Control and Automation -- Intelligent Data Analysis and Prediction -- Fuzzy Theory and Algorithms -- Supervised Learning -- Unsupervised Learning -- Kernel Methods and Supporting Vector Machines -- Knowledge Discovery and Data Mining -- Natural Language Processing and Computational Linguistics -- Gene Expression Array Analysis -- Systems Biology -- Computational Genomics -- Computational

Proteomics -- Gene Regulation Modeling and Analysis -- Protein-Protein Interaction Prediction -- Next-Gen Sequencing and Metagenomics -- Structure Prediction and Folding -- Evolutionary Optimization for Scheduling -- High-Throughput Biomedical Data Integration and Mining -- Machine Learning Algorithms and Applications -- Heuristic Optimization Algorithms for Real-World Applications -- Evolutionary Multi-Objective Optimization and Its Applications -- Swarm Evolutionary Algorithms for Scheduling and Combinatorial -- Optimization -- Swarm Intelligence and Applications in Combinatorial Optimization -- Advances in Metaheuristic Optimization Algorithm -- Advances in Image Processing and Pattern Recognition Techniques -- AI in Biomedicine -- Bioinformatics -- Biometrics Recognition -- Information Security -- Virtual Reality and Human-Computer Interaction -- Healthcare Informatics Theory and Methods -- Intelligent Computing in Computer Vision -- Intelligent Agent and Web Applications -- Reinforcement Learning -- Machine Learning -- Modeling, Simulation, and Optimization of Biological Systems -- Biomedical Data Modeling and Mining -- Cheminformatics -- Intelligent Computing in Computational Biology -- Protein Structure and Function Prediction -- Biomarker Discovery -- Hybrid Computational Intelligence: Theory and Application in Bioinformatics, Computational Biology and Systems Biology -- IoT and Smart Data -- Intelligent Systems and Applications for Bioengineering -- Evolutionary Optimization: Foundations and Its Applications to Intelligent Data Analytics -- Protein and Gene Bioinformatics: Analysis, Algorithms and Applications.

Sommario/riassunto

This two-volume set LNCS 10954 and LNCS 10955 constitutes - in conjunction with the volume LNAI 10956 - the refereed proceedings of the 14th International Conference on Intelligent Computing, ICIC 2018, held in Wuhan, China, in August 2018. The 275 full papers and 72 short papers of the three proceedings volumes were carefully reviewed and selected from 632 submissions. The papers are organized in topical sections such as Neural Networks.- Pattern Recognition.- Image Processing.- Intelligent Computing in Robotics.- Intelligent Control and Automation.- Intelligent Data Analysis and Prediction.- Fuzzy Theory and Algorithms.- Supervised Learning.- Unsupervised Learning.- Kernel Methods and Supporting Vector Machines.- Knowledge Discovery and Data Mining.- Natural Language Processing and Computational Linguistics.- Gene Expression Array Analysis.- Systems Biology.- Computational Genomics.- Computational Proteomics.- Gene Regulation Modeling and Analysis.- Protein-Protein Interaction Prediction.- Next-Gen Sequencing and Metagenomics.- Structure Prediction and Folding.- Evolutionary Optimization for Scheduling.- High-Throughput Biomedical Data Integration and Mining.- Machine Learning Algorithms and Applications.- Heuristic Optimization Algorithms for Real-World Applications.- Evolutionary Multi-Objective Optimization and Its Applications.- Swarm Evolutionary Algorithms for Scheduling and Combinatorial.- Optimization.- Swarm Intelligence and Applications in Combinatorial Optimization.- Advances in Metaheuristic Optimization Algorithm.- Advances in Image Processing and Pattern Recognition Techniques.- AI in Biomedicine.- Bioinformatics.- Biometrics Recognition.- Information Security.- Virtual Reality and Human-Computer Interaction.- Healthcare Informatics Theory and Methods.- Intelligent Computing in Computer Vision.- Intelligent Agent and Web Applications.- Reinforcement Learning.- Machine Learning.- Modeling, Simulation, and Optimization of Biological Systems.- Biomedical Data Modeling and Mining.- Cheminformatics.- Intelligent Computing in Computational Biology.- Protein Structure and Function

Prediction.- Biomarker Discovery.- Hybrid Computational Intelligence: Theory and Application in Bioinformatics, Computational Biology and Systems Biology.- IoT and Smart Data.- Intelligent Systems and Applications for Bioengineering.- Evolutionary Optimization: Foundations and Its Applications to Intelligent Data Analytics.- Protein and Gene Bioinformatics: Analysis, Algorithms and Applications.