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Collana	Lecture Notes in Bioinformatics ; ; 12029
Disciplina	572.80285 570.285
Soggetti	Application software Computer communication systems Machine learning Software engineering Optical data processing Computer Applications Computer Communication Networks Machine Learning Software Engineering/Programming and Operating Systems Image Processing and Computer Vision
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Detecting de novo Plasmodesmata targeting signals and identifying PD targeting proteins -- The Agility of a Neuron: Phase Shift between Sinusoidal Current Input and Firing Rate Curve -- Efficient Sequential and Parallel Algorithms for Incremental Record Linkage -- Autoencoder Based Methods for Diagnosis of Autism Spectrum Disorder -- FastFeatGen: Faster parallel feature extraction from genome sequences and efficient prediction of DNA \$N^6\$-methyladenine sites -- Optimized multiple fluorescence based detection in a single molecule synthesis process under high noise level environment -- Deep learning

of CTCF-mediated chromatin loops in 3D genome organization -- Effects of Various Alpha-1 Antitrypsin Supplement Dosages on the Lung Microbiome and Metabolome -- A Multi-Hypothesis Learning Algorithm for Human and Mouse miRNA Target Prediction -- RiboSimR: a tool for simulation and power analysis of Ribo-seq experiments -- Treatment Practice Analysis of Intermediate or High Risk Localized Prostate Cancer: A Multi-Center Study with Veterans Health Administration Data -- Parametric Prediction Model for Annual Growth of Electron Microscopy Data -- locStra: Fast analysis of local/global stratification in whole genome sequencing (WGS) studies -- A new graph database system for multi-omics data integration and mining complex biological information -- SMART2: Multi-Library Statistical Mitogenome Assembly with Repeats.

Sommario/riassunto

This book constitutes revised selected papers from the 9th International Conference on Computational Advances in Bio and Medical Sciences, ICCABS 2019, held in Miami, Florida, USA in November 2019. The 15 papers presented in this volume were carefully reviewed and selected from 30 submissions. They deal with topics such as computational biology; biomedical image analysis; biological networks; cancer genomics; gene enrichment analysis; functional genomics; interaction networks; protein structure prediction; dynamic programming; and microbiome analysis.
