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Descrizione fisica	1 online resource (XIV, 450 p.)
Collana	Lecture Notes in Bioinformatics, , 2366-6331 ; ; 5462
Classificazione	BIO 110f BIO 180f DAT 718f SS 4800
Altri autori (Persone)	RajasekaranSanguthevar
Disciplina	570
Soggetti	Life sciences Computer science Data mining Bioinformatics Artificial intelligence Information storage and retrieval systems Life Sciences Theory of Computation Data Mining and Knowledge Discovery Computational and Systems Biology Artificial Intelligence Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings. Includes index.
Nota di contenuto	Invited Talks -- Association Analysis Techniques for Bioinformatics Problems -- Analyzing and Interrogating Biological Networks (Abstract) -- From Architecture to Function (and Back) in Bio-networks -- A New Machine Learning Approach for Protein Phosphorylation Site Prediction in Plants -- Assembly of Large Genomes from Paired Short Reads --

Amino Acid Classification and Hash Seeds for Homology Search --
 Genotype and Haplotype Reconstruction from Low-Coverage Short
 Sequencing Reads -- Gene Networks Viewed through Two Models --
 Identifying Evolutionarily Conserved Protein Interaction Modules Using
 GraphHopper -- The 2-Interval Pattern Matching Problems and Its
 Application to ncRNA Scanning -- Refereed Papers -- RNA Pseudoknot
 Folding through Inference and Identification Using TAGRNA --
 Comparing Bacterial Genomes by Searching Their Common Intervals --
 Generalized Binary Tanglegrams: Algorithms and Applications --
 Three-Dimensional Multimodality Modelling by Integration of High-
 Resolution Interindividual Atlases and Functional MALDI-IMS Data --
 Detecting Motifs in a Large Data Set: Applying Probabilistic Insights to
 Motif Finding -- A Biclustering Method to Discover Co-regulated Genes
 Using Diverse Gene Expression Datasets -- Computational Protocol for
 Screening GPI-anchored Proteins -- Towards Large-Scale Molecular
 Dynamics Simulations on Graphics Processors -- An Agent-Based
 Model of Solid Tumor Progression -- Deciphering Drug Action and
 Escape Pathways: An Example on Nasopharyngeal Carcinoma --
 Selection of Multiple SNPs in Case-Control Association Study Using a
 Discretized Network Flow Approach -- Biclustering Expression Data
 Based on Expanding Localized Substructures -- Constrained Fisher
 Scores Derived from Interaction Profile Hidden Markov Models Improve
 Protein to Protein Interaction Prediction -- Improving Protein
 Localization Prediction Using Amino Acid Group Based Physicochemical
 Encoding -- The Impact of Gene Selection on Imbalanced Microarray
 Expression Data -- Spatial Information and Boolean Genetic Regulatory
 Networks -- Modeling of Genetic Regulatory Network in Stochastic τ -
 Calculus -- fMRI Activation Detection by MultiScale Hidden Markov
 Model -- cnF2freq: Efficient Determination of Genotype and Haplotype
 Probabilities in Outbred Populations Using Markov Models -- A
 Comprehensive Analysis Workflow for Genome-Wide Screening Data
 from ChIP-Sequencing Experiments -- A Fitness Distance Correlation
 Measure for Evolutionary Trees -- Alignment and Analysis of Closely
 Related Genomes -- Computational Prediction of Genes Translationally
 Regulated by Cytoplasmic Polyadenylation Elements -- Multiple
 Sequence Alignment System for Pyrosequencing Reads -- A Bayesian
 Approach to High-Throughput Biological Model Generation -- Parallel
 Selection of Informative Genes for Classification -- Simulation Methods
 in Uncovering New Regulatory Mechanisms in Signaling Pathways --
 GridSPiM: A Framework for Simple Locality and Containment in the
 Stochastic τ -Calculus -- Mutual Information Based Extrinsic Similarity
 for Microarray Analysis -- Graph Spectral Approach for Identifying
 Protein Domains.

Sommario/riassunto

This book constitutes the refereed proceedings of the First
 International on Bioinformatics and Computational Biology, BICoB 2007,
 held in New Orleans, LA, USA, in April 2007. The 30 revised full papers
 presented together with 10 invited lectures were carefully reviewed and
 selected from 72 initial submissions. The papers address current
 research in the area of bioinformatics and computational biology
 fostering the advancement of computing techniques and their
 application to life sciences in topics such as genome analysis sequence
 analysis, phylogenetics, structural bioinformatics, analysis of high-
 throughput biological data, genetics and population analysis, as well as
 systems biology.
