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Titolo	Computational Intelligence Methods for Bioinformatics and Biostatistics : 14th International Meeting, CIBB 2017, Cagliari, Italy, September 7-9, 2017, Revised Selected Papers // edited by Massimo Bartoletti, Annalisa Barla, Andrea Bracciali, Gunnar W. Klau, Leif Peterson, Alberto Policriti, Roberto Tagliaferri
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Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (X, 213 p. 70 illus., 43 illus. in color.)
Collana	Lecture Notes in Bioinformatics ; ; 10834
Disciplina	570.285
Soggetti	Bioinformatics Artificial intelligence Mathematical logic Algorithms Computers Computational Biology/Bioinformatics Artificial Intelligence Mathematical Logic and Formal Languages Algorithm Analysis and Problem Complexity Computing Milieux
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An open-source tool for managing time-evolving variant annotation -- Extracting few representative reconciliations with host-switches -- A quantitative and qualitative characterization of k-mer based alignment-free phylogeny construction -- Cancer mutational signatures identification with sparse dictionary learning -- Icing: Large-scale inference of immunoglobulin clonotypes -- Adenine: a HPC-oriented tool for biological data exploration -- Disease-genes must guide data source integration in the gene prioritization process -- Ensembling descendant term classifiers to improve gene – Abnormal phenotype predictions -- GP-based grammatical inference for classification of

amyloidogenic sequences -- Estimation of kinetic reaction constants: Exploiting reboot strategies to improve PSO's performance -- Haplotype and repeat separation in long reads -- Tumor subclonal progression model for cancer hallmark acquisition -- GIMLET: Identifying biological modulators in context-specific gene regulation using local energy statistics -- Structural features of a DPPG liposome layer adsorbed on a rough surface -- Chemical exchanges and actuation in liposome-based synthetic cells: Interaction with biological cells -- A nano communication system for CTC detection in blood vessels -- Experimental evidences suggest high between-vesicle diversity of artificial vesicle populations: Results, models and implications -- Towards the synthesis of photo-autotrophic protocells -- Hierarchical block matrix approach for multi-view clustering.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 14th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB 2017, held in Cagliari, Italy, in September 2017. The 19 revised full papers presented were carefully reviewed and selected from 44 submissions. The papers deal with the application of computational intelligence to open problems in bioinformatics, biostatistics, systems and synthetic biology, medical informatics, computational approaches to life sciences in general.
