1. Record Nr. UNISA996465995003316

Titolo	Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics [[electronic resource]] : 10th European Conference, EvoBIO 2012, Málaga, Spain, April 11-13, 2012, Proceedings / / edited by Mario Giacobini, Leonardo Vanneschi, William S. Bush
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-29066-3
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (XIII, 255 p. 76 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7246
Disciplina	570.285
Soggetti	Bioinformatics Algorithms Database management Artificial intelligence Computer science Artificial intelligence—Data processing Computational and Systems Biology Database Management Artificial Intelligence Theory of Computation Data Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and author index.
Sommario/riassunto	This book constitutes the refereed proceedings of the 10th European Conference on Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics, EvoBIO 2012, held in Málaga, Spain, in April 2012 co-located with the Evo* 2012 events. The 15 revised full papers presented together with 8 poster papers were carefully reviewed and selected from numerous submissions. Computational Biology is a wide and varied discipline, incorporating aspects of statistical analysis, data structure and algorithm design, machine learning, and mathematical

modeling toward the processing and improved understanding of biological data. Experimentalists now routinely generate new information on such a massive scale that the techniques of computer science are needed to establish any meaningful result. As a consequence, biologists now face the challenges of algorithmic complexity and tractability, and combinatorial explosion when conducting even basic analyses.