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| Titolo                  | Systems bioinformatics : an engineering case-based approach // Gil Alterovitz, Marco F. Ramoni, editors                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Descrizione fisica      | 1 online resource (404 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Collana                 | Artech House bioinformatics & biomedical imaging series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Altri autori (Persone)  | AlterovitzGil<br>RamoniMarco F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disciplina              | 572.80285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Soggetti                | Bioinformatics<br>Biological systems<br>Cytology - Data processing<br>Proteomics - Data processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nota di bibliografia    | Includes bibliographical references and indexes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nota di contenuto       | Preface; Part I Introduction: Molecular and Cellular Biology; Chapter 1 Molecular and Cellular Biology: An Engineering Perspective; Chapter 2 Proteomics: From Genome to Proteome; Part II Analysis: Signal Processing; Chapter 3 Introduction to Biological Signal Processing at the Cell Level; Chapter 4 Signal Processing Methods for Mass Spectrometry; Part III Analysis: Control and Systems; Chapter 5 Control and Systems Fundamentals; Chapter 6 Modeling Cellular Networks; Part IV Analysis: Probabilistic Data Networks and Communications.                      |
| Sommario/riassunto      | Powerful engineering tools can help solve today?s complex biological and biomedical research challenges? and this first-of-its-kind guide is paving the way . This trail-blazing work gives engineers a quantitative systems approach to bioinformatics research using computational tools drawn from technical disciplines. It presents biological processes in an engineering context to help engineers use their technical skills in solving novel biological problems and also to facilitate reverse engineering from biology in developing synthetic biological devices. |