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| Soggetti                | Computers<br>Life sciences<br>Bioinformatics<br>Mathematical logic<br>Algorithms<br>Theory of Computation<br>Life Sciences, general<br>Computation by Abstract Devices<br>Mathematical Logic and Formal Languages<br>Algorithm Analysis and Problem Complexity                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Note generali           | "This issue of Transactions on Computational Systems Biology contains fully-refereed selection of papers from the Fourth International Conference on Computational Methods in Systems Biology, held in Edinburgh, Scotland, April 3-5, 2005."--Pref.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Nota di contenuto       | Property-Driven Statistics of Biological Networks -- On the Computational Power of Brane Calculi -- Analysis of Signalling Pathways Using Continuous Time Markov Chains -- Machine Learning Biochemical Networks from Temporal Logic Properties -- Qualitative Petri Net Modelling of Genetic Networks -- Simulating Bacterial Transcription and Translation in a Stochastic ? Calculus -- Automated Abstraction Methodology for Genetic Regulatory Networks -- P Systems, a New Computational Modelling Tool for Systems Biology -- Equivalence of Metabolite Fragments and Flow Analysis of Isotopomer Distributions for Flux Estimation -- Multiple Representations of |

