1. Record Nr. UNINA9910484573603321

Titolo	Transactions on computational systems biology XI : computational models for cell processes / / Corrado Priami, Ralph-Johan Back, Ion Petre (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, c2009
ISBN	3-642-04186-8
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (VIII, 335 p.)
Collana	Lecture notes in computer science. Lecture notes in bioinformatics ; ; 5750
Altri autori (Persone)	PriamiCorrado BackRalph-Johan PetreIon
Disciplina	572/.6
Soggetti	Computatinal biology Bioinformatics
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 index.
Nota di contenuto	Computational Models for Cell Processes -- Process Algebra Modelling Styles for Biomolecular Processes -- Simple, Enhanced and Mutual Mobile Membranes -- Bio-PEPA with Events -- In Silico Modelling and Analysis of Ribosome Kinetics and aa-tRNA Competition -- Qualitative and Quantitative Analysis of a Bio-PEPA Model of the Gp130/JAK/STAT Signalling Pathway -- Rule-Based Modelling and Model Perturbation -- Extended Stochastic Petri Nets for Model-Based Design of Wetlab Experiments -- A Projective Brane Calculus with Activate, Bud and Mate as Primitive Actions -- Accepting Networks of Non-inserting Evolutionary Processors -- Discrete Modeling of Biochemical Signaling with Memory Enhancement -- Dynamical Systems and Stochastic Programming: To Ordinary Differential Equations and Back -- Computing Equilibrium Points of Genetic Regulatory Networks -- Code, Context, and Epigenetic Catalysis in Gene Expression.
Sommario/riassunto	The LNCS journal Transactions on Computational Systems Biology is devoted to inter- and multidisciplinary research in the fields of computer science and life sciences and supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems oriented point of view of

	biological phenomena. This special issue on Computational Models for Cell Processes is based on a workshop with the same name that took place in Turku, Finland, on May 27, 2008. The accepted papers, which have passed through a separate peer-review process, span an interesting mix of approaches to systems biology, ranging from quantitative to qualitative techniques, from continuous to discrete mathematics, from deterministic to stochastic methods, and from computational models for biology to computing paradigms inspired by biology. Also included in this issue are three regular submissions dealing with the relationship between ODEs and stochastic concurrent constraint programming, with the equilibrium points of genetic regulatory networks, and with probability models describing how epigenetic context affects gene expression and organismal development.

2.	Record Nr.	UNINA9910585938603321
	Autore	Rosa-Santos Paulo Jorge
	Titolo	Hybrid Systems for Marine Energy Harvesting
	Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
	Descrizione fisica	1 online resource (182 p.)
	Soggetti	History of engineering and technology Technology: general issues
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Sommario/riassunto	Technologies to harvest marine renewable energies (MREs) are at a pre-commercial stage, and significant R&D progress is still required in order to improve their competitiveness. Therefore, hybridization presents a significant potential, as it fosters synergies among the different harvesting technologies and resources. In the scope of this Special Issue, hybridization is understood in three different manners: (i)

combination of technologies to harvest different MREs (e.g., wave energy converters combined with wind turbines); (ii) combination of different working principles to harvest the same resource (e.g., oscillating water column with an overtopping device to harvest wave energy); or (iii) integration of harvesting technologies in multifunctional platforms and structures (e.g., integration of wave energy converters in breakwaters). This Special Issue presents cutting-edge research on the development and testing of hybrid technologies for harvesting MREs and intends to inform interested readers on the most recent advances in this key topic.