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<<计算系统生物学汇刊 VII Transa>>

图书基本信息

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内容概要

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 volume, the 7th in the Transactions on Computational Systems Biology series, contains a fully-refereed and carefully selected set of papers from the two workshops BioConcur 2004 held in London, UK in August 2004 and BioConcur 2005 held in San Francisco, CA, USA in August 2005. The 8 papers selected for this special issue are devoted to various aspects of computational methods, algorithms and techniques in bioinformatics such as modeling of signalling pathways, gene regulation in pi-calculus, relations between regulator graphs and Petri nets, translation of SBML models to stochastic pi-calculus, use of graph theory to model biological networks, distributed model checking with biochemical Kripke structures, graphical notation for stochastic pi-calculus, as well as differentiation and homeostatic behavior of boolean dynamic systems.

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书籍目录

Modelling the Influence of RKIP on the ERK Signalling Pathway Using the Stochastic Process Algebra PEPAGene Regulation in the Pi Calculus: Simulating Cooperativity at the Lambda SwitchFrom Logical Regulatory Graphs to Standard Petri Nets: Dynamical Roles and Functionalitv of Feedback CircuitsTranslating SBML Models into the Stochastic 7r-Calculus for Stochastic SimulationGraph Theory for Rule-Based Modeling of Biochemical NetworksAdapting Biochemical Kripke Structures for Distributed Model CheckingA Graphical Representation for Biological Processes in the Stochastic pi-CalculusOn Differentiation and Homeostatic Behaviours of Boolean Dynamical SystemsA Specification Language and a Framework for the Execution of Composite Models in Systems BiologyAuthor Index

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