# <<Computational Method>>

#### 图书基本信息

书名: <<Computational Methods in Systems Biology 系统生物学计算方法/会议文集>>

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#### 内容概要

This book constitutes the thoroughly refereed postproceedings of the International Conference on Computational Methods in Systems Biology, CMSB 2004, held in Paris, France in May 2004. The 16 revised full papers and 7 revised short papers presented together with an invited paper went through two rounds of reviewing, selection and revision. The papers present a variety of techniques from computer science, such as language design, concurrency theory, software engineering, and formal methods, for biologists, physicists, and mathematicians interested in the systems-level understanding of cellular processes.

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#### 书籍目录

Long Papers An Explicit Upper Bound for the Approximation Ratio of the Maximum Gene Regulatory Network Problem Autonomous Mobile Robot Control Based on White Blood Cell Chemotaxis Beta Binders for Biological Interactions Biomimetic in Silico Devices Building and Analysing an Integrative Model of HIV-1 RNA Alternative SplicingGraph-Based Modeling of Biological Regulatory Networks: Introduction of Singular States IMGT-Choreography: Processing of Complex Immunogenetics Knowledge Model Checking Biological Systems Described Using Ambient Calculus Modeling the Molecular Network Controlling Adhesion Between Human Endothelial Cells: Inference and Simulation Using Constraint Logic Programming Modelling Metabolic Pathways Using Stochastic Logic Programs-Based Ensemble Methods Projective Brane Calculus Residual Bootstrapping and Median Filtering for Robust Estimation of Gene Networks from Microarray Data Spatial Modeling and Simulation of Diffusion in Nuclei of Living Cells The Biochemical Abstract Machine BIOCHAM Towards Reusing Model Components in Systems Biology VICE: A Virtual CEllShort Papers Biological Domain Identification Based in Codon Usage by Means of Rule and Tree Induction Black Box Checking for Biochemical Networks CMBSlib: A Library for Comparing Formalisms and Models of Biological Systems Combining State-Based and Scenario-Based Approaches in Modeling Biological Systems Developing SBML Beyond Level 2: Proposals for Development.....Invited ContributionsAuthor Index

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