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Soggetti	Bioinformatics Artificial intelligence Software engineering Mathematical logic Computer logic Computational Biology/Bioinformatics Artificial Intelligence Software Engineering Mathematical Logic and Formal Languages Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Modeling and Engineering Promoters with Pre-defined RNA Production Dynamics in Escherichia coli -- Deep Abstractions of Chemical Reaction Networks -- Derivation of A Biomass Proxy for Dynamic Analysis of Whole Genome Metabolic Models -- Computing Diverse Boolean Networks from Phosphoproteomic Time Series Data -- Characterization of the Experimentally Observed Clustering of VEGF Receptors -- Synthesis for Vesicle Traffic Systems -- Formal Analysis of Network Motifs -- Buffering Gene Expression Noise by microRNA Based Feed Forward Regulation -- Stochastic Rate Parameter Inference Using the Cross-Entropy Method -- Experimental Biological Protocols with Formal Semantics -- Robust Data-Driven Control of Artificial Pancreas Systems Using Neural Networks -- Programming Substrate-Independent Kinetic

Barriers with Thermodynamic Binding Networks -- A Trace Query Language for Rule-based Models -- Inferring Mechanism of Action of an Unknown Compound from Time Series Omics Data -- Composable Rate-Independent Computation in Continuous Chemical Reaction Networks -- ASSA-PBN 3.0: Analysing Context-sensitive Probabilistic Boolean Networks -- KaSa: A Static Analyzer for Kappa -- On Robustness Computation and Optimization in BIOCHAM-4 -- LNA++: Linear Noise Approximation with First and Second Order Sensitivities -- Reparametrizing the Sigmoid Model of Gene Regulation for Bayesian Inference -- On the Full Control of Boolean Networks -- Systems Metagenomics: Applying Systems Biology Thinking to Human Microbiome Analysis.

Sommario/riassunto

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