

Johannes F. Knabe

**Computational Genetic
Regulatory Networks:
Evolvable, Self-organizing
Systems**

Computational Genetic Regulatory Networks Evolvable
Self Organizing Systems Author Johannes F Knabe Sep
201

Hitoshi Iba, Nasimul Noman



Computational Genetic Regulatory Networks Evolvable Self Organizing Systems Author Johannes F Knabe Sep 201:

Computational Genetic Regulatory Networks: Evolvable, Self-organizing Systems Johannes F. Knabe, 2012-08-14 Genetic Regulatory Networks GRNs in biological organisms are primary engines for cells to enact their engagements with environments via incessant continually active coupling In differentiated multicellular organisms tremendous complexity has arisen in the course of evolution of life on earth Engineering and science have so far achieved no working system that can compare with this complexity depth and scope of organization Abstracting the dynamics of genetic regulatory control to a computational framework in which artificial GRNs in artificial simulated cells differentiate while connected in a changing topology it is possible to apply Darwinian evolution in silico to study the capacity of such developmental differentiated GRNs to evolve In this volume an evolutionary GRN paradigm is investigated for its evolvability and robustness in models of biological clocks in simple differentiated multicellularity and in evolving artificial developing organisms which grow and express an ontogeny starting from a single cell interacting with its environment eventually including a changing local neighbourhood of other cells These methods may help us understand the genesis organization adaptive plasticity and evolvability of differentiated biological systems and may also provide a paradigm for transferring these principles of biology's success to computational and engineering challenges at a scale not previously conceivable *Evolutionary Computation in Gene Regulatory Network Research* Hitoshi Iba, Nasimul Noman, 2016-01-21 Introducing a handbook for gene regulatory network research using evolutionary computation with applications for computer scientists computational and system biologists This book is a step by step guideline for research in gene regulatory networks GRN using evolutionary computation EC The book is organized into four parts that deliver materials in a way equally attractive for a reader with training in computation or biology Each of these sections authored by well known researchers and experienced practitioners provides the relevant materials for the interested readers The first part of this book contains an introductory background to the field The second part presents the EC approaches for analysis and reconstruction of GRN from gene expression data The third part of this book covers the contemporary advancements in the automatic construction of gene regulatory and reaction networks and gives direction and guidelines for future research Finally the last part of this book focuses on applications of GRNs with EC in other fields such as design engineering and robotics Provides a reference for current and future research in gene regulatory networks GRN using evolutionary computation EC Covers sub domains of GRN research using EC such as expression profile analysis reverse engineering GRN evolution applications Contains useful contents for courses in gene regulatory networks systems biology computational biology and synthetic biology Delivers state of the art research in genetic algorithms genetic programming and swarm intelligence *Evolutionary Computation in Gene Regulatory Network Research* is a reference for researchers and professionals in computer science systems biology and bioinformatics as well as upper

undergraduate graduate and postgraduate students Hitoshi Iba is a Professor in the Department of Information and Communication Engineering Graduate School of Information Science and Technology at the University of Tokyo Tokyo Japan He is an Associate Editor of the IEEE Transactions on Evolutionary Computation and the journal of Genetic Programming and Evolvable Machines Nasimul Noman is a lecturer in the School of Electrical Engineering and Computer Science at the University of Newcastle NSW Australia From 2002 to 2012 he was a faculty member at the University of Dhaka Bangladesh Noman is an Editor of the BioMed Research International journal His research interests include computational biology synthetic biology and bioinformatics *Computational Modeling of Gene Regulatory Networks* Hamid Bolouri, 2008 This book serves as an introduction to the myriad computational approaches to gene regulatory modeling and analysis and is written specifically with experimental biologists in mind Mathematical jargon is avoided and explanations are given in intuitive terms In cases where equations are unavoidable they are derived from first principles or at the very least an intuitive description is provided Extensive examples and a large number of model descriptions are provided for use in both classroom exercises as well as self guided exploration and learning As such the book is ideal for self learning and also as the basis of a semester long course for undergraduate and graduate students in molecular biology bioengineering genome sciences or systems biology

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