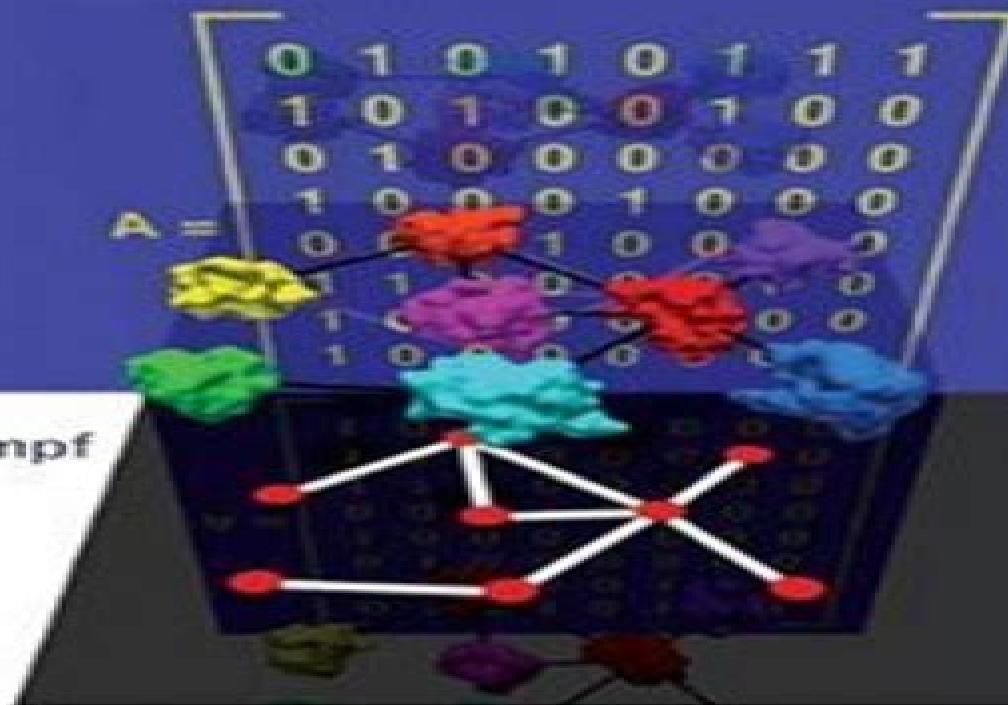


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Statistical and Evolutionary Analysis of Biological Networks

Imperial College Press

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Statistical and Evolutionary Analysis of Biological Networks Michael P. H. Stumpf, Carsten Wiuf, 2010 Networks provide a very useful way to describe a wide range of different data types in biology physics and elsewhere Apart from providing a convenient tool to visualize highly dependent data networks allow stringent mathematical and statistical analysis In recent years much progress has been achieved to interpret various types of biological network data such as transcriptomic metabolomic and protein interaction data as well as epidemiological data Of particular interest is to understand the organization complexity and dynamics of biological networks and how these are influenced by network evolution and functionality This book reviews and explores statistical mathematical and evolutionary theory and tools in the understanding of biological networks The book is divided into comprehensive and self contained chapters each of which focuses on an important biological network type explains concepts and theory and illustrates how these can be used to obtain insight into biologically relevant processes and questions There are chapters covering metabolic transcriptomic protein interaction and epidemiological networks as well as chapters that deal with theoretical and conceptual material The authors who contribute to the book are active highly regarded and well known in the network community Sample Chapter s Chapter 1 A Network Analysis Primer 350 KB Contents A Network Analysis Primer M P H Stumpf Evolutionary Analysis of Protein Interaction Networks C Wiuf Motifs in Biological Networks F Schreiber Bayesian Analysis of Biological Networks Clusters Motifs Cross Species Correlations J Berg Network Concepts and Epidemiological Models R R Kao Evolutionary Origin and Consequences of Design Properties of Metabolic Networks T Pfeiffer Protein Interactions from an Evolutionary Perspective F Pazos Statistical Null Models for Biological Network Analysis W P Kelly et al Readership Academics researchers postgraduates and advanced undergraduates in bioinformatics Biologists mathematicians statisticians physicists and computer scientists

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to the book are active highly regarded and well known in the network community **Complex Systems** ,2011-09-22 There has been recently some interdisciplinary convergence on a number of precise topics which can be considered as prototypes of complex systems This convergence is best appreciated at the level of the techniques needed to deal with these systems which include 1 A domain of research around a multiple point where statistical physics information theory algorithmic computer science and more theoretical probabilistic computer science meet this covers some aspects of error correcting codes stochastic optimization algorithms typical case complexity and phase transitions constraint satisfaction problems 2 The study of collective behavior of interacting agents its impact on understanding some types of economical and financial problems their link to population and epidemics dynamics game theory social biological and computer networks and evolution The present book is the written version of the lectures given during the Les Houches summer school session on Complex Systems devoted to these emerging interdisciplinary fields The lectures consist both in a number of long methodological courses probability theory statistical physics of disordered systems information theory network structure and evolution agent based economics and numerical methods and more specific problem oriented courses Lecturers are all leading experts in their field they have summarized recent results in a clear and authoritative manner The Les Houches lecture notes have a long tradition of excellence and are often found to be useful for a number of years after they were written The book is of interest to students and researchers with various backgrounds probability theory computer science information theory physics finance biology etc Topical and comprehensive survey of the emerging interdisciplinary field of Complex Systems covered by recognized world experts Les Houches lectures notes a long tradition of excellence and long lasting impact Of interest to a broad audience mathematics physics biology informatics finance geology etc Some applications may have concrete impact Selected topics in complex systems forefront of research in the field **Big Data of Complex Networks** Matthias Dehmer,Frank Emmert-Streib,Stefan Pickl,Andreas Holzinger,2016-08-19 Big Data of Complex Networks presents and explains the methods from the study of big data that can be used in analysing massive structural data sets including both very large networks and sets of graphs As well as applying statistical analysis techniques like sampling and bootstrapping in an interdisciplinary manner to produce novel techniques for analyzing massive amounts of data this book also explores the possibilities offered by the special aspects such as computer memory in investigating large sets of complex networks Intended for computer scientists statisticians and mathematicians interested in the big data and networks Big Data of Complex Networks is also a valuable tool for researchers in the fields of visualization data analysis computer vision and bioinformatics Key features Provides a complete discussion of both the hardware and software used to organize big data Describes a wide range of useful applications for managing big data and resultant data sets Maintains a firm focus on massive data and large networks Unveils innovative techniques to help readers handle big data Matthias Dehmer received his PhD in computer science from the Darmstadt University of Technology Germany Currently he is Professor at UMIT The

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Genetic and Evolutionary Computation Conference ,2005 **Analysis of Biological Networks** Björn H. Junker,Falk Schreiber,2008-03-14 An introduction to biological networks and methods for their analysis Analysis of Biological Networks is the first book of its kind to provide readers with a comprehensive introduction to the structural analysis of biological networks at the interface of biology and computer science The book begins with a brief overview of biological networks and graph theory graph algorithms and goes on to explore global network properties network centralities network motifs network clustering Petri nets signal transduction and gene regulation networks protein interaction networks metabolic networks phylogenetic networks ecological networks and correlation networks Analysis of Biological Networks is a self contained introduction to this important research topic assumes no expert knowledge in computer science or biology and is accessible to professionals and students alike Each chapter concludes with a summary of main points and with exercises for readers to test their understanding of the material presented Additionally an FTP site with links to author provided data for the book is available for deeper study This book is suitable as a resource for researchers in computer science biology bioinformatics advanced biochemistry and the life sciences and also serves as an ideal reference text for graduate level courses in bioinformatics and biological research

Proceedings of the 6th World Congress on Genetics Applied to Livestock Production, January 11-16, 1998 ,1998 **Statistical Analysis of Networks and Biophysical Systems of Complex Architecture** Olga Valba,2013 Complex organization is found in many biological systems For example biopolymers could

possess very hierachic structure which provides their functional peculiarity Understating such complex organization allows describing biological phenomena and predicting molecule functions Besides we can try to characterize the specific phenomenon by some probabilistic quantities variances means etc assuming the primary biopolymer structure to be randomly formed according to some statistical distribution Such a formulation is oriented toward evolutionary problems Artificially constructed biological network is another common object of statistical physics with rich functional properties A behavior of cells is a consequence of complex interactions between its numerous components such as DNA RNA proteins and small molecules Cells use signaling pathways and regulatory mechanisms to coordinate multiple processes allowing them to respond and to adapt to changing environment Recent theoretical advances allow us to describe cellular network structure using graph concepts to reveal the principal organizational features shared with numerous non biological networks The aim of this thesis is to develop bunch of methods for studying statistical and dynamic objects of complex architecture and in

particular scale free structures which have no characteristic spatial and or time scale For such systems the use of standard mathematical methods relying on the average behavior of the whole system is often incorrect or useless while a detailed many body description is almost hopeless because of the combinatorial complexity of the problem Here we focus on two problems The first part addresses to statistical analysis of random biopolymers Apart from the evolutionary context our studies cover more general problems of planar topology appeared in description of various systems ranging from gauge theory to biophysics We investigate analytically and numerically a phase transition of a generic planar matching problem from the regime where almost all the vertices are paired to the situation where a finite fraction of them remains unmatched The second part of this work focus on statistical properties of networks We demonstrate the possibility to define co expression gene clusters within a network context from their specific motif distribution signatures We also show how a method based on the shortest path function SPF can be applied to gene interactions sub networks of co expression gene clusters to efficiently predict novel regulatory transcription factors TFs The biological significance of this method by applying it on groups of genes with a shared regulatory locus found by genetic genomics is presented Finally we discuss formation of stable patters of motifs in networks under selective evolution in context of creation of islands of superfamilies

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