

UNDERSTANDING
COMPLEX SYSTEMS

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Hiroki Sayama
Editors

Adaptive Networks

Theory, Models and
Applications



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Adaptive Networks Theory Models And Applications Understanding Complex Systems

**Stefan Thurner, Rudolf Hanel, Peter
Klimek**



Adaptive Networks Theory Models And Applications Understanding Complex Systems:

Adaptive Networks Thilo Gross,Hiroki Sayama,2009-08-11 Adding one and one makes two usually But sometimes things add up to more than the sum of their parts This observation now frequently expressed in the maxim more is different is one of the characteristic features of complex systems and in particular complex networks Along with their ubiquity in real world systems the ability of networks to exhibit emergent dynamics once they reach a certain size has rendered them highly attractive targets for research The resulting network hype has made the word network one of the most influential buzzwords seen in almost every corner of science from physics and biology to economy and social sciences The theme of more is different appears in a different way in the present volume from the viewpoint of what we call adaptive networks Adaptive networks uniquely combine dynamics on a network with dynamical adaptive changes of the underlying network topology and thus they link classes of mechanisms that were previously studied in isolation Here adding one and one certainly does not make two but gives rise to a number of new phenomena including highly robust self organization of topology and dynamics and other remarkably rich dynamical behaviors

An Introduction to Undergraduate Research in Computational and Mathematical Biology Hannah Callender Highlander,Alex Capaldi,Carrie Diaz Eaton,2020-02-17 Speaking directly to the growing importance of research experience in undergraduate mathematics programs this volume offers suggestions for undergraduate appropriate research projects in mathematical and computational biology for students and their faculty mentors The aim of each chapter is twofold for faculty to alleviate the challenges of identifying accessible topics and advising students through the research process for students to provide sufficient background additional references and context to excite students in these areas and to enable them to successfully undertake these problems in their research Some of the topics discussed include Oscillatory behaviors present in real world applications from seasonal outbreaks of childhood diseases to action potentials in neurons Simulating bacterial growth competition and resistance with agent based models and laboratory experiments Network structure and the dynamics of biological systems Using neural networks to identify bird species from birdsong samples Modeling fluid flow induced by the motion of pulmonary cilia Aimed at undergraduate mathematics faculty and advanced undergraduate students this unique guide will be a valuable resource for generating fruitful research collaborations between students and faculty

Frugal Engineering Balkrishna C. Rao,2024-05-20 This book presents a novel method of engineering to create advanced frugal products from scratch It outlines a frugal design and frugal manufacturing approach and delineates concepts and principles underlying different types of frugal innovations The contents present advanced frugal innovations AFIIs in a variety of sectors bringing out their widespread presence in rich and emerging economies of the world This book discusses applications of such innovations in aerospace automotive healthcare particle physics and other important sectors emphasizing the significant potential of frugal engineering AFIIs are not just made rather they are engineered to harness frugality with cutting edge research using classical and modern scientific principles

Frugal engineering uses advances in science and other knowledge areas including 3D printing biomimetics artificial intelligence Industry 4.0 and others to frugalize pillars of engineering in modern problems. This book will be of interest to academics, industry professionals, policymakers, product designers and developers among others. It introduces the reader to the wonderful world of frugal engineering. In doing so, this book shines light on the significant difference that meticulous creation of these innovations through systematic application of science, engineering and other knowledge bases can make to the cause of sustainable development. Frugal engineering of AFls is indispensable to achieving the sustainable development goals. We can help manage our every growing need for energy and resources effectively by going frugal in the current age of climate change.

Introduction to the Theory of Complex Systems Stefan Thurner, Rudolf Hanel, Peter Klimek, 2018-09-05

This book is a comprehensive introduction to quantitative approaches to complex adaptive systems. Practically all areas of life on this planet are constantly confronted with complex systems, be it ecosystems, societies, traffic, financial markets, opinion formation and spreading or the internet and social media. Complex systems are systems composed of many elements that interact strongly with each other, which makes them extremely rich dynamical systems showing a huge range of phenomena. Properties of complex systems that are of particular importance are their efficiency, robustness, resilience and proneness to collapse. The quantitative tools and concepts needed to understand the co-evolutionary nature of networked systems and their properties are challenging. The book gives a self-contained introduction to these concepts so that the reader will be equipped with a toolset that allows them to engage in the science of complex systems. Topics covered include random processes of path dependent processes, co-evolutionary dynamics, dynamics of networks, the theory of scaling and approaches from statistical mechanics and information theory. The book extends beyond the early classical literature in the field of complex systems and summarizes the methodological progress made over the past 20 years in a clear, structured and comprehensive way.

A Complex Systems Approach to Epilepsy Rod C. Scott, J. Matthew Mahoney, 2023-01-26

The epilepsies are devastating neurological disorders for which progress developing effective new therapies has slowed over recent decades, primarily due to the complexity of the brain at all scales. This reality has shifted the focus of experimental and clinical practice toward complex systems approaches to overcoming current barriers. Organized by scale from genes to whole brain, the chapters of this book survey the theoretical underpinnings and use of network and dynamical systems approaches to interpreting and modeling experimental and clinical data in epilepsy. The emphasis throughout is on the value of the non-trivial and often counterintuitive properties of complex systems and how to leverage these properties to elaborate mechanisms of epilepsy and develop new therapies. In this essential book, readers will learn key concepts of complex systems theory applied across multiple scales and how each of these scales connects to epilepsy.

Macroscopic Models for Vehicular Flows and Crowd Dynamics: Theory and Applications Massimiliano Daniele Rosini, 2013-03-15

This monograph presents a systematic treatment of the theory for hyperbolic conservation laws and their applications to vehicular traffics and crowd

dynamics In the first part of the book the author presents very basic considerations and gradually introduces the mathematical tools necessary to describe and understand the mathematical models developed in the following parts focusing on vehicular and pedestrian traffic The book is a self contained valuable resource for advanced courses in mathematical modeling physics and civil engineering A number of examples and figures facilitate a better understanding of the underlying concepts and motivations for the students Important new techniques are presented in particular the wave front tracking algorithm the operator splitting approach the non classical theory of conservation laws and the constrained problems This book is the first to present a comprehensive account of these fundamental new mathematical advances **Closed Loop**

Neuroscience Ahmed El Hady,2016-09-08 Closed Loop Neuroscience addresses the technical aspects of closed loop neurophysiology presenting the implementation of these approaches spanning several domains of neuroscience from cellular and network neurophysiology through sensory and motor systems and then clinical therapeutic devices Although closed loop approaches have long been a part of the neuroscientific toolbox these techniques are only now gaining popularity in research and clinical applications As there is not yet a comprehensive methods book addressing the topic as a whole this volume fills that gap presenting state of the art approaches and the technical advancements that enable their application to different scientific problems in neuroscience Presents the first volume to offer researchers a comprehensive overview of the technical realities of employing closed loop techniques in their work Offers application to in vitro in vivo and hybrid systems Contains an emphasis on the actual techniques used rather than on specific results obtained Includes exhaustive protocols and descriptions of software and hardware making it easy for readers to implement the proposed methodologies Encompasses the clinical neuroprosthetic aspect and how these systems can also be used to contribute to our understanding of basic neurophysiology Edited work with chapters authored by leaders in the field from around the globe the broadest most expert coverage available *The Power of Complex Systems* Marialisa Scatà,2025-10-29 This book offers a visionary and interdisciplinary framework for rethinking mobile communication networks through the lens of complex systems It combines theoretical rigor with real world relevance integrating network science bio inspired computation and modeling approach and social behavior to model and design future proof infrastructures The innovative approach lies in merging multilayer and higher order topologies with artificial intelligence and behavioral dynamics enabling systems that are adaptive resilient and socially aware The book emphasizes the mutual feedback between technological design and human interactions It addresses researchers engineers and policymakers engaged in 6G digital health smart cities and sustainability offering practical insights into designing intelligent human centric and ethically aligned networks for a hyperconnected future

Information Theory for Complex Systems Kristian Lindgren,2024-01-03 This book introduces a comprehensive framework tailored for dissecting complex systems across diverse disciplines What defines a complex system How can we harness information to quantify its order structure and intricacy Delving into phenomena from the intricate processes in

physical systems to the dynamic behaviours in cellular automata and pattern formation readers will uncover the profound interplay between physics and information theory This intricate relationship provides fresh insight into physical phenomena reimagining them through the lens of information Notably the book demystifies how seemingly opposing forces rising order and increasing disorder coexist ultimately shedding light on the second law of thermodynamics as an outcome of deterministic reversible dynamics beneath the surface Geared towards graduate students this book presumes an undergraduate foundation in mathematics and physics ensuring a deep engaging exploration for its readers

A Guide To Temporal Networks Naoki Masuda, Renaud Lambiotte, 2016-07-28 Network science offers a powerful language to represent and study complex systems composed of interacting elements from the Internet to social and biological systems In its standard formulation this framework relies on the assumption that the underlying topology is static or changing very slowly as compared to dynamical processes taking place on it e g epidemic spreading or navigation Fuelled by the increasing availability of longitudinal networked data recent empirical observations have shown that this assumption is not valid in a variety of situations Instead often the network itself presents rich temporal properties and new tools are required to properly describe and analyse their behaviour A Guide to Temporal Networks presents recent theoretical and modelling progress in the emerging field of temporally varying networks and provides connections between different areas of knowledge required to address this multi disciplinary subject After an introduction to key concepts on networks and stochastic dynamics the authors guide the reader through a coherent selection of mathematical and computational tools for network dynamics Perfect for students and professionals this book is a gateway to an active field of research developing between the disciplines of applied mathematics physics and computer science with applications in others including social sciences neuroscience and biology

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