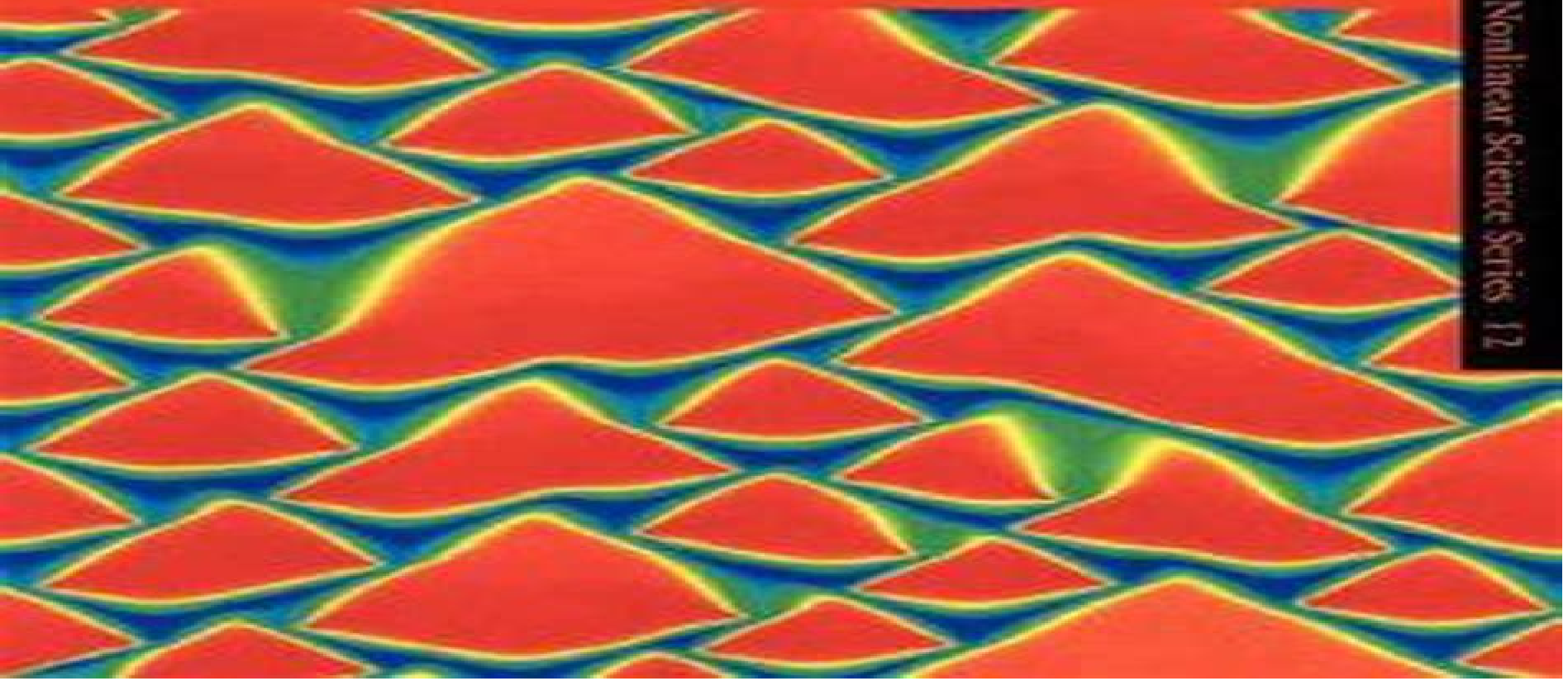


Synchronization

A universal concept in nonlinear sciences

Arkady Pikovsky, Michael Rosenblum, and
Jürgen Kurths

Cambridge Nonlinear Science Series 12



Synchronization A Universal Concept In Nonlinear Sciences

**Viktor Müller, Merle Theresa
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Synchronization Arkady Pikovsky, Michael Rosenblum, Jürgen Kurths, 2001-10-18 First recognized in 1665 by Christiaan Huygens synchronization phenomena are abundant in science nature engineering and social life Systems as diverse as clocks singing crickets cardiac pacemakers firing neurons and applauding audiences exhibit a tendency to operate in synchrony These phenomena are universal and can be understood within a common framework based on modern nonlinear dynamics The first half of this book describes synchronization without formulae and is based on qualitative intuitive ideas The main effects are illustrated with experimental examples and figures and the historical development is outlined The remainder of the book presents the main effects of synchronization in a rigorous and systematic manner describing classical results on synchronization of periodic oscillators and recent developments in chaotic systems large ensembles and oscillatory media This comprehensive book will be of interest to a broad audience from graduate students to specialist researchers in physics applied mathematics engineering and natural sciences

Synchronization Arkady Pikovsky, Michael Rosenblum, Jürgen Kurths, 2001 Synchronization phenomena are abundant in science nature engineering and social life Systems as diverse as clocks singing crickets cardiac pacemakers and applauding audiences exhibit a tendency to operate in synchrony This comprehensive book describes the phenomena using both classical results and recent developments

Synchronization Arkady Pikovsky, Michael Rosenblum (coaut), Jürgen Kurths (coaut), 2003

Synchronization Arkady Pikovsky, 2001 Synchronization phenomena are abundant in science nature engineering and social life Systems as diverse as clocks singing crickets cardiac pacemakers and applauding audiences exhibit a tendency to operate in synchrony This comprehensive book describes the phenomena using both classical results and recent developments

Synchronization and Waves in Active Media Jan Frederik Totz, 2019-01-18 The interplay between synchronization and spatio temporal pattern formation is central for a broad variety of phenomena in nature such as the coordinated contraction of heart tissue associative memory and learning in neural networks and pathological synchronization during Parkinson disease or epilepsy In this thesis three open puzzles of fundamental research in Nonlinear Dynamics are tackled How does spatial confinement affect the dynamics of three dimensional vortex rings What role do permutation symmetries play in the spreading of excitation waves on networks Does the spiral wave chimera state really exist All investigations combine a theoretical approach and experimental verification which exploit an oscillatory chemical reaction A novel experimental setup is developed that allows for studying networks with $N = 1000$ neuromorphic relaxation oscillators It facilitates the free choice of network topology coupling function as well as its strength range and time delay which can even be chosen as time dependent These experimental capabilities open the door to a broad range of future experimental inquiries into pattern formation and synchronization on large networks which were previously out of reach

Statistical Physics of Synchronization Shamik Gupta, Alessandro Campa, Stefano Ruffo, 2018-08-28 This book introduces and discusses the analysis of interacting many body complex systems exhibiting

spontaneous synchronization from the perspective of nonequilibrium statistical physics While such systems have been mostly studied using dynamical system theory the book underlines the usefulness of the statistical physics approach to obtain insightful results in a number of representative dynamical settings Although it is intractable to follow the dynamics of a particular initial condition statistical physics allows to derive exact analytical results in the limit of an infinite number of interacting units Chapter one discusses dynamical characterization of individual units of synchronizing systems as well as of their interaction and summarizes the relevant tools of statistical physics The latter are then used in chapters two and three to discuss respectively synchronizing systems with either a first or a second order evolution in time This book provides a timely introduction to the subject and is meant for the uninitiated as well as for experienced researchers working in areas of nonlinear dynamics and chaos statistical physics and complex systems

From Structure to Function in Neuronal Networks: Effects of Adaptation, Time-Delays, and Noise Serhiy Yanchuk,Viktor Jirsa,Joana Cabral,Oleksandr Popovych,Alessandro Torcini,2022-05-06

Hybrid Artificial Intelligence Systems Emilio Corchado,Xindong Wu,Erkki Oja,Bruno Baruaque,2009-06-02 This volume constitutes the refereed proceedings of the 4th International Workshop on Hybrid Artificial Intelligence Systems HAIS 2009 held in Salamanca Spain in June 2009 The 85 papers presented were carefully reviewed and selected from 206 submissions The topics covered are agents and multi agents systems HAIS applications cluster analysis data mining and knowledge discovery evolutionary computation learning algorithms real world HAIS applications and data uncertainty hybrid artificial intelligence in bioinformatics evolutionary multiobjective machine learning hybrid reasoning and coordination methods on multi agent systems methods of classifiers fusion knowledge extraction based on evolutionary learning hybrid systems based on bioinspired algorithms and argumentation methods hybrid evolutionary intelligence in financial engineering

The Routledge Companion to Embodied Music Interaction Micheline Lesaffre,Pieter-Jan Maes,Marc Leman,2017-09-19 The Routledge Companion to Embodied Music Interaction captures a new paradigm in the study of music interaction as a wave of recent research focuses on the role of the human body in musical experiences This volume brings together a broad collection of work that explores all aspects of this new approach to understanding how we interact with music addressing the issues that have roused the curiosities of scientists for ages to understand the complex and multi faceted way in which music manifests itself not just as sound but also as a variety of cultural styles not just as experience but also as awareness of that experience With contributions from an interdisciplinary and international array of scholars including both empirical and theoretical perspectives the Companion explores an equally impressive array of topics including Dynamical music interaction theories and concepts Expressive gestural interaction Social music interaction Sociological and anthropological approaches Empowering health and well being Modeling music interaction Music based interaction technologies and applications This book is a vital resource for anyone seeking to understand human interaction with music from an embodied perspective

Turbulence and Self-Organization Mikhail

Ya Marov,Aleksander V. Kolesnichenko,2013-01-16 The book deals with the development of continual models of turbulent natural media Such models serve as a ground for the statement and numerical evaluation of the key problems of the structure and evolution of the numerous astrophysical and geophysical objects The processes of ordering self organization in an originally chaotic turbulent medium are addressed and treated in detail with the use of irreversible thermodynamics and stochastic dynamics approaches which underlie the respective models Different examples of ordering set up in the natural environment and outer space are brought and thoroughly discussed the main focus being given to the protoplanetary discs formation and evolution **Coordinated Activity in the Brain** Jose Luis Perez Velazquez,Richard Wennberg,2009-05-28

Increasing interest in the study of coordinated activity of brain cell ensembles reflects the current conceptualization of brain information processing and cognition It is thought that cognitive processes involve not only serial stages of sensory signal processing but also massive parallel information processing circuitries and therefore it is the coordinated activity of neuronal networks of brains that give rise to cognition and consciousness in general While the concepts and techniques to measure synchronization are relatively well characterized and developed in the mathematics and physics community the measurement of coordinated activity derived from brain signals is not a trivial task and is currently a subject of debate Coordinated Activity in the Brain Measurements and Relevance to Brain Function and Behavior addresses conceptual and methodological limitations as well as advantages in the assessment of cellular coordinated activity from neurophysiological recordings The book offers a broad overview of the field for investigators working in a variety of disciplines neuroscience biophysics mathematics physics neurology neurosurgery psychology biomedical engineering computer science computational biology and introduces future trends for understanding brain activity and its relation to cognition and pathologies This work will be valuable to professional investigators and clinicians graduate and post graduate students in related fields of neuroscience and biophysics and to anyone interested in signal analysis techniques for studying brain function *Lectures on General Quantum Correlations and their Applications* Felipe Fernandes Fanchini,Diogo de Oliveira Soares Pinto,Gerardo

Adesso,2017-06-24 This book presents a distinctive way of understanding quantum correlations beyond entanglement introducing readers to this less explored yet very fundamental aspect of quantum theory It takes into account most of the new ideas involving quantum phenomena resources and applications without entanglement both from a theoretical and an experimental point of view This book serves as a reference for both beginner students and experienced researchers in physics and applied mathematics with an interest in joining this novel venture towards understanding the quantum nature of the world **Energy for Propulsion** Akshai K. Runchal,Ashwani K. Gupta,Abhijit Kushari,Ashoke De,Suresh K.

Aggarwal,2018-07-06 This research book provides state of the art advances in several areas of energy generation from and environmental impact of fuels and biofuels It also presents novel developments in the areas of biofuels and products from various feedstock materials along with thermal management emission control and environmental issues Availability of clean

and sustainable energy is of paramount importance in all applications of energy power mobility and propulsion This book is written by internationally renowned experts from around the globe They provide the latest innovations in cleaner energy utilization for a wide range of devices The energy and environment sustainability requires a multipronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems and novel and environmentally friendly technologies for improved fuel use This book serves as a good reference for practicing engineers educators and research professionals

Tackling the Inverse Problem for Non-Autonomous Systems Tomislav Stankovski,2013-08-27 This thesis presents a new method for following evolving interactions between coupled oscillatory systems of the kind that abound in nature Examples range from the subcellular level to ecosystems through climate dynamics to the movements of planets and stars Such systems mutually interact adjusting their internal clocks and may correspondingly move between synchronized and non synchronized states The thesis describes a way of using Bayesian inference to exploit the presence of random fluctuations thus analyzing these processes in unprecedented detail It first develops the basic theory of interacting oscillators whose frequencies are non constant and then applies it to the human heart and lungs as an example Their coupling function can be used to follow with great precision the transitions into and out of synchronization The method described has the potential to illuminate the ageing process as well as to improve diagnostics in cardiology anesthesiology and neuroscience and yields insights into a wide diversity of natural processes

Interpersonal synchrony and network dynamics in social interaction Viktor Müller,Merle Theresa Fairhurst,Floris Tijmen Van Vugt,Peter Erik Keller,Markus Franziskus Mueller,2023-01-02

Robust Engineering Designs of Partial Differential Systems and Their Applications Bor-Sen Chen,2021-12-22 Most systems in science engineering and biology are of partial differential systems PDSs modeled by partial differential equations Many books about partial differential equations have been written by mathematicians and mainly address some fundamental mathematic backgrounds and discuss some mathematic properties of partial differential equations Only a few books on PDSs have been written by engineers however these books have focused mainly on the theoretical stabilization analysis of PDSs especially mechanical systems This book investigates both robust stabilization control design and robust filter design and reference tracking control design in mechanical signal processing and control systems to fill a gap in the study of PDSs Robust Engineering Designs of Partial Differential Systems and Their Applications offers some fundamental background in the first two chapters The rest of the chapters focus on a specific design topic with a corresponding deep investigation into robust H filtering stabilization or tracking design for more complex and practical PDSs under stochastic fluctuation and external disturbance This book is aimed at engineers and scientists and addresses the gap between the theoretical stabilization results of PDSs in academic and practical engineering designs more focused on the robust H filtering stabilization and tracking control problems of linear and nonlinear PDSs under intrinsic random fluctuation and external disturbance in industrial applications Part I provides backgrounds on PDSs such as Galerkin

s and finite difference methods to approximate PDSs and a fuzzy method to approximate nonlinear PDSs Part II examines robust H filter designs for the robust state estimation of linear and nonlinear stochastic PDSs And Part III treats robust H stabilization and tracking control designs of linear and nonlinear PDSs Every chapter focuses on an engineering design topic with both theoretical design analysis and practical design examples [Chimera States in Complex Networks](#) Eckehard Schöll,Anna Zakharova,Ralph G. Andrzejak,2020-01-03 **Science and Racket Sports III** Jean-Francois Kahn,Adrian Lees,Ian Maynard,2004-10-14 Science and Racket Sports III introduces the edited papers and keynote addresses presented at the combined Third World Congress of Science and Racket Sports and Eighth International Table Tennis Federation Sports Science Congress in February 2003 The papers are brought together by world class experts Lees is Chair of the World Congress for Sports Science Rackets Division Kahn is Technical Director of the International Table Tennis federation and Maynard is Secretary of the British Association of Sport and Exercise Scientists The papers detail cutting edge research in racket sports science in five key areas notational match analysis sports medicine biomechanics sports psychology sports physiology This valuable collection embraces a broad spectrum of the issues being examined by contemporary sports scientists and will be of interest to researchers in sports biomechanics and ergonomics sports engineering and elite racket sports professionals [Editor's pick e-book: highlighted research from Frontiers in Computational Neuroscience 2025](#) Misha Tsodyks,Si Wu,2025-06-27 Frontiers in Computational Neuroscience is a multidisciplinary journal that focuses on the theoretical modeling of brain function and encourages multidisciplinary interactions between theoretical and experimental neuroscience Our mission aligns closely with advancing global health and wellness goals particularly the United Nations Sustainable Development Goal 3 good health and well being by promoting a deeper understanding of brain function and fostering research and collaboration in the field This contributes to the development of new knowledge and technologies that can potentially improve mental health neurological disorders and overall well being aligning with the broader goal of ensuring healthy lives and promoting well being for all at all ages Here we are pleased to introduce this Theme book entitled Research Highlights from Frontiers in Computational Neuroscience 2024 curated by our esteemed Chief Editors of Frontiers in Computational Neuroscience This collection honors the remarkable contributions of authors who have furthered our understanding of computational neuroscience through innovative and impactful research The work presented here spotlights the broad diversity of exciting research performed across the journal We hope you enjoy our selection of key articles We also thank all authors editors and reviewers of Frontiers in Computational Neuroscience for their contributions to our journal and look forward to another exciting year in 2025 *Advances in Mathematical and Statistical Modeling* Barry C. Arnold,N. Balakrishnan,Jose-Maria Sarabia Alegria,Roberto Minguez,2009-04-09 Enrique Castillo is a leading figure in several mathematical and engineering fields Organized to honor Castillo s significant contributions this volume is an outgrowth of the International Conference on Mathematical and Statistical Modeling and covers recent advances in the field Applications

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