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Controlling Synchronization Patterns in Complex Networks



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Enrico Cherubini, Richard Miles



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Springer Handbook of Computational Intelligence Janusz Kacprzyk, Witold Pedrycz, 2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured

Qualitative Analysis and Control of Complex Neural Networks with Delays Zhanshan Wang, Zhenwei Liu, Chengde Zheng, 2015-07-18 This book focuses on the stability of the dynamical neural system synchronization of the coupling neural system and their applications in automation control and electrical engineering The redefined concept of stability synchronization and consensus are adopted to provide a better explanation of the complex neural network Researchers in the fields of dynamical systems computer science electrical engineering and mathematics will benefit from the discussions on complex systems The book will also help readers to better understand the theory behind the control technique and its design

Machine Learning, Advances in Computing, Renewable Energy and Communication Anuradha Tomar, Hasmat Malik, Pramod Kumar, Atif Iqbal, 2021-08-19 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2020 held in Krishna Engineering College Ghaziabad India during December 17 18 2020 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications

Applications of Chaos and Nonlinear Dynamics in Engineering - Vol. 1 Santo Banerjee, Mala Mitra, Lamberto Rondoni, 2011-09-06 Chaos and nonlinear dynamics initially developed as a new emergent field with its foundation in physics and applied mathematics The highly generic interdisciplinary quality of the insights gained in the last few decades has spawned myriad applications in almost all branches of science and technology and even well beyond Wherever quantitative modeling and analysis of complex nonlinear phenomena is required chaos theory and its methods can play a key role This volume concentrates on reviewing the most relevant contemporary applications of chaotic nonlinear systems as they apply to the various cutting edge branches of engineering The book covers the theory as applied to robotics electronic and communication engineering for example chaos synchronization and cryptography as well as to civil and mechanical engineering where its use in damage monitoring and control is explored Featuring contributions from active and leading research groups this collection is ideal both as a reference and as a recipe book full of tried and tested successful engineering applications

A New Foundation for Representation in Cognitive and Brain Science Jaime

Gómez-Ramírez,2013-11-22 The purpose of the book is to advance in the understanding of brain function by defining a general framework for representation based on category theory The idea is to bring this mathematical formalism into the domain of neural representation of physical spaces setting the basis for a theory of mental representation able to relate empirical findings uniting them into a sound theoretical corpus The innovative approach presented in the book provides a horizon of interdisciplinary collaboration that aims to set up a common agenda that synthesizes mathematical formalization and empirical procedures in a systemic way Category theory has been successfully applied to qualitative analysis mainly in theoretical computer science to deal with programming language semantics Nevertheless the potential of category theoretic tools for quantitative analysis of networks has not been tackled so far Statistical methods to investigate graph structure typically rely on network parameters Category theory can be seen as an abstraction of graph theory Thus new categorical properties can be added into network analysis and graph theoretic constructs can be accordingly extended in more fundamental basis By generalizing networks using category theory we can address questions and elaborate answers in a more fundamental way without waiving graph theoretic tools The vital issue is to establish a new framework for quantitative analysis of networks using the theory of categories in which computational neuroscientists and network theorists may tackle in more efficient ways the dynamics of brain cognitive networks The intended audience of the book is researchers who wish to explore the validity of mathematical principles in the understanding of cognitive systems All the actors in cognitive science philosophers engineers neurobiologists cognitive psychologists computer scientists etc are akin to discover along its pages new unforeseen connections through the development of concepts and formal theories described in the book Practitioners of both pure and applied mathematics e g network theorists will be delighted with the mapping of abstract mathematical concepts in the terra incognita of cognition

Systemische Hirngespinnste Reinert Hanswille,2013-02-20 Gibt es einen freien Willen Sind Menschen schuldig Wer bin ich und wenn ja wie viele Gibt es überhaupt ein Ich oder Selbst Fragen wie diese bewegen die Feuilletons und sind Gegenstand zahlreicher aktueller Veröffentlichungen So verwundert es nicht dass sich auch Systemiker Gedanken darüber machen welche Bedeutung Spiegelneuronen und die Theory of Mind für die therapeutische und beratende Praxis haben und Neurowissenschaftler darüber nachsinnen wie Lebens und Beziehungserfahrungen das menschliche Gehirn prägen Namhafte Experten zeigen in diesem Band dass sich Neurowissenschaften und systemische Therapie und Beratung nicht ausschließen sondern einander inspirieren und ergänzen

Online Communities and Social Computing A. Ant Ozok,Panayiotis Zaphiris,2013-07-02 This book constitutes the refereed proceedings of the 5th International Conference on Online Communities and Social Computing OCSC 2013 held as part of the 15th International Conference on Human Computer Interaction HCII 2013 held in Las Vegas USA in July 2013 jointly with 12 other thematically similar conferences The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions These papers address the latest research and development efforts and highlight the

human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 49 contributions was carefully reviewed and selected for inclusion in the OCSC proceedings The papers are organized in the following topical sections user behavior and experience in online social communities learning and gaming communities society business and health designing and developing novel online social experiences

Neurodynamics: An Exploration in Mesoscopic Brain Dynamics Walter Freeman, 2012-12-06 Cortical evoked potentials are of interest primarily as tests of changing neuronal excitabilities accompanying normal brain function The first three steps in the analysis of these complex waveforms are proper placement of electrodes for recording the proper choice of electrical or sensory stimulus parameters and the establishment of behavioral control The fourth is development of techniques for reliable measurement Measurement consists of comparison of an unknown entity with a set of standard scales or dimensions having numerical attributes in preassigned degree A physical object can be described by the dimensions of size mass density etc In addition there are dimensions such as location velocity weight hardness etc Some of these dimensions can be complex e g size depends on three or more subsidiary coordinates and some can be interdependent or nonorthogonal e g specification of size and mass may determine density In each dimension the unit is defined with reference to a standard physical entity e g a unit of mass or length and the result of measurement is expressed as an equivalence between the unknown and the sum of a specified number of units of that entity The dimensions of a complex waveform are elementary waveforms from which that waveform can be built by simple addition Any finite single valued function of time is admissible They are called basis functions [10] and they can be expressed in numeric as well as geometric form

Neuromuscular Fundamentals Nassir H. Sabah, 2020-11-29 This book is rather unique in its approach and coverage The approach is essentially that of an engineering textbook emphasizing the quantitative aspects and highlighting the fundamentals and basic concepts involved The coverage progresses in a logical and systematic manner from the subcellular starting with the electrophysiology of the cell membrane then proceeding to synapses neurons and muscle before considering neuronal motor ensembles and the neuromuscular system as a whole Simple clear and comprehensive explanations are given throughout After an introductory chapter on some background material in biology biophysics and chemical kinetics a substantial part of the book Chapters 2-8 necessarily covers in considerable detail the basic components and processes that underlie the electrical and associated activities of the nervous system The remaining chapters of the book Chapters 9-13 focus on the neuromuscular system starting with the structure of muscle cells the generation of force by muscular contraction and muscle receptors The last chapter examines aspects of the control of movement motor learning and memory the maintenance of posture and locomotion and critically examines some of the theories that have been advanced to explain how movement is controlled The book is intended for undergraduate or graduate students in the natural sciences

mathematics or engineering who seek a deeper understanding of the fundamentals of neuroscience and the somatomotor system in accordance with the aforementioned objectives The book can serve as a textbook for a one semester course on the neuromuscular system or as a reference in a more general course on neuroscience Provides a thorough analytical treatment of membrane electrophysiology starting from the first principles Emphasizes strongly the basic and fundamental concepts throughout Discusses thoroughly the essential features and properties of the basic constituents of the nervous system that is neurons and synapses including the neuromuscular junction Explains the main aspects of posture locomotion and control of movement Includes practice problems throughout the text and a solutions manual will be available for adopting professors

Nassir Sabah is professor of biomedical engineering in the electrical and computer engineering department at the American University of Beirut Lebanon He received his B Sc Hons Class I and his M Sc in electrical engineering from the University of Birmingham U K and his Ph D in biophysical sciences from the State University of New York SUNY Buffalo He has served as Chairman of the Electrical Engineering Department Director of the Institute of Computer Studies and Dean of the Faculty of Engineering and Architecture at the American University of Beirut In these capacities he was responsible for the development of programs curricula and courses in electrical biomedical communications and computer engineering Professor Sabah has extensive professional experience in the fields of electrical engineering electronics and computer systems with more than 35 years teaching experience in neuroengineering biomedical engineering electronics and electric circuits He has over 100 technical publications mainly in neurophysiology biophysics and biomedical instrumentation He has served on numerous committees and panels in Lebanon and the region He is a Fellow of the Institution of Engineering and Technology IET U K a member of the American Association for the Advancement of Science AAAS and a member of the American Society for Engineering Education ASEE

Umphred's Neurological Rehabilitation - E-Book Rolando T. Lazaro, Sandra G. Reina-Guerra, Myla Quiben, 2019-12-05 Selected for Doody's Core Titles 2024 in Physical Medicine and Rehabilitation

Develop problem solving strategies for individualized effective neurologic care Under the new leadership of Rolando Lazaro Umphred's Neurological Rehabilitation 7th Edition covers the therapeutic management of people with activity limitations participation restrictions and quality of life issues following a neurological event This comprehensive reference reviews basic theory and addresses the best evidence for evaluation tools and interventions commonly used in today's clinical practice It applies a time tested evidence based approach to neurological rehabilitation that is perfect for both the classroom and the clinic Now fully searchable with additional case studies through Student Consult this edition includes updated chapters and the latest advances in neuroscience Comprehensive reference offers a thorough understanding of all aspects of neurological rehabilitation Expert authorship and editors lend their experience and guidance for on the job success UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision vestibular dysfunction dementia and problems with cognition and aging with a disability A problem solving approach helps you apply your

knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Case studies use real world examples to promote problem solving skills Comprehensive coverage of neurological rehabilitation across the lifespan from pediatrics to geriatrics Terminology adheres to the best practices follows The Guide to Physical Therapy Practice and the WHO ICF World Health model NEW enhanced eBook on Student Consult UPDATED Color photos and line drawings clearly demonstrate important concepts and clinical conditions students will encounter in practice NEW and EXPANDED Additional case studies and videos illustrate how concepts apply to practice Updated chapters incorporate the latest advances and the newest information in neurological rehabilitation strategies NEW and UNIQUE New chapter on concussion has been added Separate and expanded chapters on two important topics Balance and Vestibular **Rebuilding cerebellar network computations from cellular**

neurophysiology Egidio D'Angelo, This Research Topic is centered around the attempt to understand network activity of the brain by combining experimental and modeling techniques A surprisingly rich set of new observations is emerging about the functions of the olivo cerebellar cortical modules This Research Topic will consider the critical elements of new emerging knowledge achieved using in vitro and in vivo techniques and the computational attempts at functional circuit reconstruction

Design and Development of Affordable Healthcare Technologies Bit, Arindam, 2018-06-22 Technological advancements in the last few decades have significantly revolutionized the healthcare industry resulting in life expectancy improvement in human beings The use of automated machines in healthcare has reduced human errors and has notably improved disease diagnosis efficiency Design and Development of Affordable Healthcare Technologies provides emerging research on biomedical instrumentation bio signal processing and device development within the healthcare industry This book provides insight into various subjects including patient monitoring medical imaging and disease classification This book is a vital reference source for medical professionals biomedical engineers scientists researchers and medical students interested in the comprehensive research on the advancements in healthcare technologies Nanobrain Anirban Bandyopadhyay, 2020-04-03 Making an artificial brain is not a part of artificial intelligence It will be a revolutionary journey of mankind exploring a science where one cannot write an equation a material will vibrate like geometric shape and then those shapes will change to make decisions Geometry of silence plays like a musical instrument to mimic a human brain our thoughts imagination everything would be a 3D shape playing as music composing music would be the brain s singular job For a century the Turing machine ruled human civilization it was believed that irrespective of complexity all events add up linearly This book is a thesis to explore the science of decision making where events are 3D geometric shapes events grow within and above never side by side The book documents inventions and discoveries in neuroscience computer science materials science mathematics and chemistry that explore the possibility of brain or universe as a time crystal The

philosophy of Turing the philosophy of membrane based neuroscience and the philosophy of linear sequential thought process are challenged here by considering that a nested time crystal encompasses the entire conscious universe Instead of an algorithm the pattern of maximum free will is generated mathematically and that very pattern is encoded in materials such that its natural vibration integrates random events exactly similar to the way nature does it in every remote corner of our universe Find how an artificial brain avoids any necessity for algorithm or programming using the pattern of free will

The CA3 Region of the Hippocampus: How is it? What is it for? How does it do it? Enrico Cherubini, Richard Miles, 2015-08-19 The CA3 hippocampal region receives information from the entorhinal cortex either directly from the perforant path or indirectly from the dentate gyrus via the mossy fibers MFs According to their specific targets principal mossy cells or interneurons MFs terminate with large boutons or small filopodial extensions respectively MF CA3 synapses are characterized by a low probability of release and pronounced frequency dependent facilitation In addition MF terminals are endowed with mGluRs that regulate their own release We will describe the intrinsic membrane properties of pyramidal cells which can sometimes fire in bursts together with the geometry of their dendritic arborization The single layer of pyramidal cells is quite distinct from the six layered neocortical arrangement The resulting aligned dendrites provides the substrate for laminated excitatory inputs They also underlie a precise diversity of inhibitory control which we will also describe in detail The CA3 region has an especially rich internal connectivity with recurrent excitatory and inhibitory loops In recent years both in vivo and in vitro studies have allowed to better understand functional properties of the CA3 auto associative network and its role in information processing This circuit is implicated in encoding spatial representations and episodic memories It generates physiological population synchronies including gamma theta and sharp waves that are presumed to associate firing in selected assemblies of cells in different behavioral conditions The CA3 region is susceptible to neurodegeneration during aging and after stresses such as infection or injury Loss of some CA3 neurones has striking effects on mossy fiber inputs and can facilitate the generation of pathologic synchrony within the CA3 micro circuit The aim of this special topic is to bring together experts on the cellular and molecular mechanisms regulating the wiring properties of the CA3 hippocampal microcircuit in both physiological and pathological conditions synaptic plasticity behavior and cognition We will particularly emphasize the dual glutamatergic and GABAergic phenotype of MF CA3 synapses at early developmental stages and the steps that regulate the integration of newly generated neurons into the adult dentate gyrus CA3 circuit

Controlling Synchronization Patterns in Complex Networks Judith Lehnert, 2015-11-06 This research aims to achieve a fundamental understanding of synchronization and its interplay with the topology of complex networks Synchronization is a ubiquitous phenomenon observed in different contexts in physics chemistry biology medicine and engineering Most prominently synchronization takes place in the brain where it is associated with several cognitive capacities but is in abundance a characteristic of neurological diseases Besides zero lag synchrony group and cluster states are considered

enabling a description and study of complex synchronization patterns within the presented theory Adaptive control methods are developed which allow the control of synchronization in scenarios where parameters drift or are unknown These methods are therefore of particular interest for experimental setups or technological applications The theoretical framework is demonstrated on generic models coupled chemical oscillators and several detailed examples of neural networks

Surface Chaos and Its Applications Shu Tang Liu, Li Zhang, 2022-03-03 This book addresses a special topic in the field of nonlinear dynamical systems develops a new research direction of surface chaos and surface bifurcation It provides a clear watershed for original nonlinear chaos and bifurcation research The novel content of this book makes nonlinear system research more systematical and personalized This book introduces the chaos and bifurcation behavior of surface dynamics in the sense of Li Yorke the basic properties Lyapunov exponent and Feigenbaum constant of nonlinear behavior of surface and obtained the wave behavior of chaotic process in surface motion the control of surface chaos and bifurcation and the wide application of surface chaos in engineering technology Through this book readers can obtain more abundant and novel contents about surface chaos and surface bifurcation than the existing mixed fitting bifurcation of plane curve and space curve which can also expand the realm and vision of research

Brain Leitmotifs Roger Traub, Andreas Draguhn, 2024-04-01 This book tackles the question of why the brain is so difficult to fully understand In neuroscience data are acquired and analyzed with astonishing techniques and accumulate rapidly Nevertheless try to explain how a person can think or why there is such a condition as schizophrenia and it appears that we really know little To approach these difficulties the authors first present a number of case studies in which the operation of a neural circuit is worked out in some detail and at the same time the functional significance of the operation is also understood These examples are complicated in their biologic specifics but are conceptually straightforward The examples are hoped to provoke an appreciation for what neuroscience can accomplish The authors then develop some thoughts on how these issues can be addressed instead of considering cognition in general taking instead a subset of cognition that does lend itself to formal description

Modern Digital Radio Communication Signals and Systems Sung-Moon Michael Yang, 2018-06-04 This book serves as an easily accessible reference for wireless digital communication systems Topics are presented with simple but non trivial examples and then elaborated with their variations and sophistications It includes numerous examples and exercises to illustrate key points The book emphasizes both practical problem solving and a thorough understanding of fundamentals aiming to realize the complementary relationship between practice and theory Though the author emphasize wireless radio channels the fundamentals that are covered are useful to different channels digital subscriber line coax power lines optical fibers and even Gigabit serial interconnection This book is the outgrowth of the author's hands on experience in the telecommunication systems industry as a research and development engineer It is written primarily for practitioners of wireless digital communication systems engineers and technical leaders and managers and for digital communication systems in general including new comers like graduate students and upper

division undergraduate students The material in chapters 5 OFDM 6 Channel coding 7 Synchronization and 8 Transceivers contains something new not explicitly available in typical textbooks and useful in practice For example in Chapter 5 all known orthogonal frequency division multiplex signals are formulated based on pulse shape and thus flexible e g unlike currently predominant symbol block transmission it can be serial transmission In Chapter 6 we emphasize practical applications of powerful error coding such as LDPC to higher order modulations fading and non linearity problem In Chapter 7 new digital timing detectors are suggested for small access bandwidth shaping pulse and a digital quadrature imbalance correction is also included along with digital carrier phase recovery In Chapter 8 low IF digital image cancelling transceiver is treated in detail so that practical implementation can be readily done with advantages

The GENI Book Rick McGeer, Mark Berman, Chip Elliott, Robert Ricci, 2016-08-31 This book edited by four of the leaders of the National Science Foundation's Global Environment and Network Innovations GENI project gives the reader a tour of the history architecture future and applications of GENI Built over the past decade by hundreds of leading computer scientists and engineers GENI is a nationwide network used daily by thousands of computer scientists to explore the next Cloud and Internet and the applications and services they enable which will transform our communities and our lives Since by design it runs on existing computing and networking equipment and over the standard commodity Internet it is poised for explosive growth and transformational impact over the next five years Over 70 of the builders of GENI have contributed to present its development architecture and implementation both as a standalone US project and as a federated peer with similar projects worldwide forming the core of a worldwide network Applications and services enabled by GENI from smarter cities to intensive collaboration to immersive education are discussed The book also explores the concepts and technologies that transform the Internet from a shared transport network to a collection of slices private on the fly application specific nationwide networks with guarantees of privacy and responsiveness The reader will learn the motivation for building GENI and the experience of its precursor infrastructures the architecture and implementation of the GENI infrastructure its deployment across the United States and worldwide the new network applications and services enabled by and running on the GENI infrastructure and its international collaborations and extensions This book is useful for academics in the networking and distributed systems areas Chief Information Officers in the academic private and government sectors and network and information architects

Brain Connectivity in Autism Rajesh K. Kana, Lucina Q. Uddin, Tal Kenet, Diane Chugani, Ralph-Axel Müller, 2014-09-23 The brain's ability to process information crucially relies on connectivity Understanding how the brain processes complex information and how such abilities are disrupted in individuals with neuropsychological disorders will require an improved understanding of brain connectivity Autism is an intriguingly complex neurodevelopmental disorder with multidimensional symptoms and cognitive characteristics A biological origin for autism spectrum disorders ASD had been proposed even in the earliest published accounts Kanner 1943 Asperger 1944 Despite decades of research a focal

neurobiological marker for autism has been elusive Nevertheless disruptions in interregional and functional and anatomical connectivity have been a hallmark of neural functioning in ASD Theoretical accounts of connectivity perceive ASD as a cognitive and neurobiological disorder associated with altered functioning of integrative circuitry Neuroimaging studies have reported disruptions in functional connectivity synchronization of activated brain areas during cognitive tasks and during task free resting states While these insights are valuable they do not address the time lagged causality and directionality of such correlations Despite the general promise of the connectivity account of ASD inconsistencies and methodological differences among studies call for more thorough investigations A comprehensive neurological account of ASD should incorporate functional effective and anatomical connectivity measures and test the diagnostic utility of such measures In addition questions pertaining to how cognitive and behavioral intervention can target connection abnormalities in ASD should be addressed This research topic of the Frontiers in Human Neuroscience addresses Brain Connectivity in Autism primarily from cognitive neuroscience and neuroimaging perspectives

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