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Dynamics of Complex Autonomous Boolean Networks

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Christof Teuscher



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Dynamics of Complex Autonomous Boolean Networks David P. Rosin, 2014-12-31 This thesis focuses on the dynamics of autonomous Boolean networks on the basis of Boolean logic functions in continuous time without external clocking These networks are realized with integrated circuits on an electronic chip as a field programmable gate array FPGA with roughly 100 000 logic gates offering an extremely flexible model system It allows fast and cheap design cycles and large networks with arbitrary topologies and coupling delays The author presents pioneering results on theoretical modeling experimental realization and selected applications In this regard three classes of novel dynamic behavior are investigated i Chaotic Boolean networks are proposed as high speed physical random number generators with high bit rates ii Networks of periodic Boolean oscillators are home to long living transient chimera states i e novel patterns of coexisting domains of spatially coherent synchronized and incoherent desynchronized dynamics iii Excitable networks exhibit cluster synchronization and can be used as fast artificial Boolean neurons whose spiking patterns can be controlled This work presents the first experimental platform for large complex networks which will facilitate exciting future developments

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

Reservoir Computing Kohei Nakajima, Ingo Fischer, 2021-08-05 This book is the first comprehensive book about reservoir computing RC RC is a powerful and broadly applicable computational framework based on recurrent neural networks Its advantages lie in small training data set requirements fast training inherent memory and high flexibility for various hardware implementations It originated from computational neuroscience and machine learning but has in recent years spread dramatically and has been introduced into a wide variety of fields including complex systems science physics material science biological science quantum machine learning optical communication systems and robotics Reviewing the current state of the art and providing a concise guide to the field this book introduces readers to its basic concepts theory techniques physical implementations and applications The book is sub structured into two major parts theory and physical implementations Both parts consist of a compilation of chapters authored by leading experts in their respective fields The

first part is devoted to theoretical developments of RC extending the framework from the conventional recurrent neural network context to a more general dynamical systems context With this broadened perspective RC is not restricted to the area of machine learning but is being connected to a much wider class of systems The second part of the book focuses on the utilization of physical dynamical systems as reservoirs a framework referred to as physical reservoir computing A variety of physical systems and substrates have already been suggested and used for the implementation of reservoir computing Among these physical systems which cover a wide range of spatial and temporal scales are mechanical and optical systems nanomaterials spintronics and quantum many body systems This book offers a valuable resource for researchers Ph D students and experts alike and practitioners working in the field of machine learning artificial intelligence robotics neuromorphic computing complex systems and physics

Discrete-Time and Discrete-Space Dynamical Systems Kuize Zhang, Lijun Zhang, Lihua Xie, 2019-08-06 Discrete Time and Discrete Space Dynamical Systems provides a systematic characterization of the similarities and differences of several types of discrete time and discrete space dynamical systems including Boolean control networks nondeterministic finite transition systems finite automata labelled Petri nets and cellular automata The book's perspective is primarily based on topological properties though it also employs semitensor product and graph theoretic methods where appropriate It presents a series of fundamental results invertibility observability detectability reversibility etc with applications to systems biology Academic researchers with backgrounds in applied mathematics engineering or computer science and practising engineers working with discrete time and discrete space systems will find this book a helpful source of new understanding for this increasingly important class of systems The basic results to be found within are of fundamental importance for further study of related problems such as automated synthesis and safety control in cyber physical systems using formal methods

Chimera Patterns in Networks Anna Zakharova, 2020-03-09 This is the first book devoted to chimera states peculiar partial synchronization patterns in networks Providing an overview of the state of the art in research on this topic it explores how these hybrid states which are composed of spatially separated domains of synchronized and desynchronized behavior arise surprisingly in networks of identical units and symmetric coupling topologies The book not only describes various types of chimeras but also discusses the role of time delay stochasticity and network topology for these synchronization desynchronization patterns Moreover it addresses the question of robustness and control of chimera states which have various applications in physics biology chemistry and engineering This book is intended for researchers with a background in physics applied mathematics or engineering Of great interest to specialists working on related problems it is also a valuable resource for newcomers to the field and other scientists working on the control of spatio temporal patterns

Performing Math Andrew Fiss, 2020-11-13 How math communication has started with reading aloud How math communication has been practiced in prohibited ways How math anxiety has developed from classroom tech How math communication has been theatrical How math anxiety became about written testing Conclusion Math communication

from STEM to STEAM **Formal Methods** Marieke Huisman, Corina Păsăreanu, Naijun Zhan, 2021-11-10 This book constitutes the refereed proceedings of the 24th Symposium on Formal Methods FM 2021 held virtually in November 2021. The 43 full papers presented together with 4 invited presentations were carefully reviewed and selected from 131 submissions. The papers are organized in topical sections named Invited Presentations Interactive Theorem Proving Neural Networks Active Learning Logics Theory Program Verification I Hybrid Systems Program Verification II Automata Analysis of Complex Systems Probabilities Industry Track Invited Papers Industry Track Divide et Impera Efficient Synthesis of Cyber Physical System **Proceedings of the 5th International Conference on Applications in Nonlinear Dynamics** Visarath In, Patrick Longhini, Antonio Palacios, 2019-04-16 This book presents collaborative research presented by experts in the field of nonlinear science provides the reader with contemporary cutting edge research works that bridge the gap between theory and device realizations of nonlinear phenomena. The conference provides a unique forum for applications of nonlinear systems while solving practical problems in science and engineering. Topics include chaos gates social networks communication sensors lasers molecular motors biomedical anomalies and stochastic resonance. This book provides a comprehensive report of the various research projects presented at the International Conference on Applications in Nonlinear Dynamics ICAND 2018 held in Maui Hawaii 2018. It can be a valuable tool for scientists and engineering interested in connecting ideas and methods in nonlinear dynamics with actual design fabrication and implementation of engineering applications or devices **Boolean Systems** Serban E. Vlad, 2023-01-06 The Boolean functions may be iterated either asynchronously when their coordinates are computed independently of each other or synchronously when their coordinates are computed at the same time. In *Boolean Systems* Topics in Asynchronicity a book addressed to mathematicians and computer scientists interested in Boolean systems and their use in modelling author Serban E Vlad presents a consistent and original mathematical theory of the discrete time Boolean asynchronous systems. The purpose of the book is to set forth the concepts of such a theory resulting from the synchronous Boolean system theory and mostly from the synchronous real system theory by analogy and to indicate the way in which known synchronous deterministic concepts generate new asynchronous nondeterministic concepts. The reader will be introduced to the dependence on the initial conditions periodicity path connectedness topological transitivity and chaos. A property of major importance is invariance which is present in five versions. In relation to it the reader will study the maximal invariant subsets the minimal invariant supersets the minimal invariant subsets connectedness separation the basins of attraction and attractors. The stability of the systems and their time reversal symmetry end the topics that refer to the systems without input. The rest of the book is concerned with input systems. The most consistent chapters of this part of the book refer to the fundamental operating mode and to the combinational systems systems without feedback. The chapter Wires Gates and Flip Flops presents a variety of applications. The first appendix addresses the issue of continuous time and the second one sketches the important theory of Daizhan Cheng which

is put in relation to asynchronicity The third appendix is a bridge between asynchronicity and the symbolic dynamics of Douglas Lind and Brian Marcus Presents a consistent and original theory of the discrete time Boolean asynchronous systems which are useful for mathematicians and computer scientists interested in Boolean Networks dynamical systems and modeling Studies the flows and equations of evolution nullclines dependence on initial conditions periodicity path connectedness topological transitivity chaos nonwandering points invariance connectedness and separation as well as the basins of attraction attractors stability and time reversal symmetry Explains the fundamental operating mode of the input systems and the combinational systems systems without feedback Includes a chapter of applications of the Boolean systems and their modeling techniques Makes use of the unbounded delay model of computation of the Boolean functions **Theory and Applications of Models of Computation** Jianer Chen, Qilong Feng, Jinhui Xu, 2020-10-11 This book constitutes the refereed proceedings of the 16th Annual Conference on Theory and Applications of Models of Computation TAMC 2020 held in Changsha China in October 2020 The 37 full papers were carefully reviewed and selected from 83 submissions The main themes of the selected papers are computability complexity algorithms information theory and their extensions to machine learning theory and foundations of artificial intelligence *Automata and Complexity* Andrew Adamatzky, 2022-04-19 This book commemorates Eric Goles's achievements in science and engineering Eric Goles is one of the world leaders in the field of automata and complexity His groundbreaking discoveries are in the theory and analysis of complex systems particularly in the field of discrete systems dynamics such as neural networks automata networks majority networks bootstrap percolation models cellular automata computational complexity theory discrete mathematics and theoretical computer science Topics include cellular automata complex networks models of computation expansive systems sandpile automata Penrose tilings Boolean automata models of infection Fibonacci trees dominos reversible automata and fungal automata The chapters are authored by world leaders in computer science physics mathematics and engineering The book will be a pleasure to explore for readers from all walks of life from undergraduate students to university professors from mathematicians computer scientists and engineers to chemists and biologists *Encyclopedia of Production and Manufacturing Management* Paul M. Swamidass, 2006-09-21 The Encyclopedia of Production and Manufacturing Management is an encyclopedia that has been developed to serve this field as the fundamental reference work Over the past twenty years the field of production and operations management has grown more rapidly than ever and consequently its boundaries have been stretched in all directions For example in the last two decades production and manufacturing management absorbed in rapid succession several new production management concepts manufacturing strategy focused factory just in time manufacturing concurrent engineering total quality management supply chain management flexible manufacturing systems lean production and mass customization to name a few This explosive growth makes the need for this volume abundantly clear The manufacturing industry thinks and acts more broadly than it did several decades ago The most notable change has been the need for

manufacturing managers to think in technological strategic and competitive terms This is a very favorable development and it leads to manufacturing success The entries in this encyclopedia include the most recent technical and strategic innovations in production and manufacturing management The encyclopedia consists of articles of varying lengths The longer articles on important concepts and practices range from five to fifteen pages There are about 100 such articles written by nearly 100 authors from around the world In addition there are over 1000 shorter entries on concepts practices and principles The range of topics and depth of coverage is intended to suit both student and professional audiences The shorter entries provide digests of unfamiliar and complicated subjects Difficult subjects are made intelligible to the reader without oversimplification The strategic and technological perspectives on various topics give this Encyclopedia its distinctiveness and uniqueness The world of manufacturing today is increasingly competitive It is apparent that manufacturers must respond to these competitive pressures with technical and strategic innovation This encyclopedia has been developed to help researchers students and those in the manufacturing industry to understand and implement these ongoing changes in the field

Computational Methods for Understanding Complexity: The Use of Formal Methods in Biology David A.

Rosenblueth, 2016-11-21 The complexity of living organisms surpasses our unaided abilities of analysis Hence computational and mathematical methods are necessary for increasing our understanding of biological systems At the same time there has been a phenomenal recent progress allowing the application of novel formal methods to new domains This progress has spurred a conspicuous optimism in computational biology This optimism in turn has promoted a rapid increase in collaboration between specialists of biology with specialists of computer science Through sheer complexity however many important biological problems are at present intractable and it is not clear whether we will ever be able to solve such problems We are in the process of learning what kind of model and what kind of analysis and synthesis techniques to use for a particular problem Some existing formalisms have been readily used in biological problems others have been adapted to biological needs and still others have been especially developed for biological systems This Research Topic has examples of cases 1 employing existing methods 2 adapting methods to biology and 3 developing new methods We can also see discrete and Boolean models and the use of both simulators and model checkers Synthesis is exemplified by manual and by machine learning methods We hope that the articles collected in this Research Topic will stimulate new research **Parallel**

Problem Solving from Nature - PPSN III Yuval Davidor, Hans-Paul Schwefel, Reinhard Männer, 1994-09-21 The challenges in ecosystem science encompass a broadening and strengthening of interdisciplinary ties the transfer of knowledge of the ecosystem across scales and the inclusion of anthropogenic impacts and human behavior into ecosystem landscape and regional models The volume addresses these points within the context of studies in major ecosystem types viewed as the building blocks of central European landscapes The research is evaluated to increase the understanding of the processes in order to unite ecosystem science with resource management The comparison embraces coastal lowland forests associated

wetlands and lakes agricultural land use and montane and alpine forests Techniques for upscaling focus on process modelling at stand and landscape scales and the use of remote sensing for landscape level model parameterization and testing The case studies demonstrate ways for ecosystem scientists managers and social scientists to cooperate Web Intelligence Meets Brain Informatics Ning Zhong, Jiming Liu, Yiyu Yao, Jinglong Wu, Shengfu Lu, Kuncheng Li, 2007-11-29 This book constitutes the thoroughly refereed post workshop proceedings of the First WICI International Workshop on Web Intelligence meets Brain Informatics WImBI 2006 which was held in Beijing China in December 2006 The workshop explores a new perspective of Web Intelligence WI research from the viewpoint of Brain Informatics BI The 26 revised full length papers presented together with three introductory lectures have been carefully reviewed and selected Turing's Connectionism Christof Teuscher, 2012-12-06 Alan Mathison Turing 1912 1954 was the first to carry out substantial research in the field now known as Artificial Intelligence AI He was thinking about machine intelligence at least as early as 1941 and during the war circulated a typewritten paper on machine intelligence among his colleagues at the Government Code and Cypher School GC both were topics that Turing discussed extensively during the war years at GC CS as was mechanical chess 121 In 1945 the war in Europe over Turing was recruited by the National Physical Laboratory NPL in London his brief to design and develop an electronic stored program digital computer a concrete form of the universal Turing machine of 1936 185 Turing's technical report Proposed Electronic 2 Calculator dating from the end of 1945 and containing his design for the Automatic Computing Engine ACE was the first relatively complete specification of an electronic stored program digital computer 193 197 The document First Draft of a Report on the EDVAC produced by John von Neumann and the Moore School group at the University of Pennsylvania in May 1945 contained little engineering detail in particular concerning electronic hardware 202 **Advances in Artificial Life** Mathieu Capcarrere, Alex A. Freitas, Peter J. Bentley, Colin G. Johnson, Jon Timmis, 2005-08-29 The Artificial Life term appeared more than 20 years ago in a small corner of New Mexico USA Since then the area has developed dramatically many researchers joining enthusiastically and research groups sprouting everywhere This frenetic activity led to the emergence of several strands that are now established fields in themselves We are now reaching a stage that one may describe as maturer with more rigour more benchmarks more results more stringent acceptance criteria more applications in brief more sound science This which is the natural path of all new areas comes at a price however A certain enthusiasm a certain adventurousness from the early years is fading and may have been lost on the way The field has become more reasonable To counterbalance this and to encourage lively discussions a conceptual track where papers were judged on criteria like importance and or novelty of the concepts proposed rather than the experimental theoretical results has been introduced this year A conference on a theme as broad as Artificial Life is bound to be very diverse but a few tendencies emerged First fields like Robotics and Autonomous Agents or Evolutionary Computation are still extremely active and keep on bringing a wealth of results to the Artificial Life community Even there however new tendencies

appear like collective robotics and more specifically self assembling robotics which represent now a large subsection Second new areas appear

Researching Vocabulary N. Schmitt, 2010-08-18 The book overviews a wide range of vocabulary research methodologies and offers practical advice on how to carry out valid and reliable research on first and second language vocabulary It includes a Resources section which outlines the lexical tests corpora software internet sites and other resources available to vocabulary researchers

Unifying Themes in Complex Systems VII Ali A. Minai, Dan Braha, Yaneer Bar-Yam, 2012-12-22 The International Conference on Complex Systems ICCS creates a unique atmosphere for scientists of all fields engineers physicians executives and a host of other professionals to explore common themes and applications of complex system science With this new volume Unifying Themes in Complex Systems continues to build common ground between the wide ranging domains of complex system science

SOFSEM 2021: Theory and Practice of Computer Science Tomáš Bureš, Riccardo Dondi, Johann Gamper, Giovanna Guerrini, Tomasz Jurdziński, Claus Pahl, Florian Sikora, Prudence W.H. Wong, 2021-01-20 This book contains the invited and contributed papers selected for presentation at SOFSEM 2021 the 47th International Conference on Current Trends in Theory and Practice of Computer Science which was held online during January 25-28 2021 hosted by the Free University of Bozen Bolzano Italy The 33 full and 7 short papers included in the volume were carefully reviewed and selected from 100 submissions They were organized in topical sections on foundations of computer science foundations of software engineering foundations of data science and engineering and foundations of algorithmic computational biology The book also contains 5 invited papers

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