

Synchronization

Banerjee, Santo

Synchronization Stefano Boccaletti,Alexander N. Pisarchik,Charo I. del Genio,Andreas Amann,2018-03-29 A modern introduction to synchronization phenomena, combining the development of deep mathematical concepts with illustrative examples and practical applications.

Synchronization Arkady Pikovsky,Michael Rosenblum,Jürgen Kurths,2001-10-18 The book describes synchronization phenomena using both classical results and more recent developments.

Synchronization Alexander Balanov,Natalia Janson,Dmitry Postnov,Olga Sosnovtseva,2008-11-23 This fascinating work is devoted to the fundamental phenomenon in physics – synchronization that occurs in coupled non-linear dissipative oscillators. Examples of such systems range from mechanical clocks to population dynamics, from the human heart to neural networks. The main purpose of this book is to demonstrate that the complexity of synchronous patterns of real oscillating systems can be described in the framework of the general approach, and the authors study this phenomenon as applied to oscillations of different types, such as those with periodic, chaotic, noisy and noise-induced nature.

Synchronization Techniques for Digital Receivers Umberto Mengali,2013-11-11 Synchronization is a critical function in digital communications; its failures may have catastrophic effects on the transmission system performance. Furthermore, synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs. For these reasons design engineers are particularly concerned with the development of new and more efficient synchronization structures. Unfortunately, the advent of digital VLSI technology has radically affected modem design rules, to a point that most analog techniques employed so far have become totally obsolete. Although digital synchronization methods are well established by now in the literature, they only appear in the form of technical papers, often concentrating on specific performance or implementation issues. As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous field. It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework, or else he will not know where to adjust his methods when he attempts to apply them to new situations. The task of the present book is just to develop such a framework.

Synchronization in Real-Time Systems Ragunathan Rajkumar,2012-12-06 Real-time computing systems are vital to a wide range of applications. For example, they are used in the control of nuclear reactors and automated manufacturing facilities, in controlling and tracking air traffic, and in communication systems. In recent years, real-time systems have also grown larger and become more critical. For instance, advanced aircraft such as the space shuttle must depend heavily on computer systems [Carlow 84]. The centralized control of manufacturing facilities and assembly plants operated by robots are other examples at the heart of which lie embedded real-time systems. Military defense systems deployed in the air, on the ocean surface, land and underwater, have also been increasingly relying upon real-time systems for monitoring and operational safety purposes, and for retaliatory and containment measures. In telecommunications and in multi-media applications, real time characteristics are essential to maintain the integrity of transmitted data, audio and video signals. Many of these systems control, monitor or perform critical operations, and must respond quickly to emergency events in a wide range of embedded applications. They are therefore required to process tasks with stringent timing requirements and must perform these tasks in a way that these timing requirements are guaranteed to be met. Real-time scheduling algorithms attempt to ensure that system timing behavior meets its specifications, but typically assume that tasks do not share logical or physical resources. Since resource-sharing cannot be eliminated, synchronization primitives must be used to ensure that resource consistency constraints are not violated.

MediaSync Mario Montagud,Pablo Cesar,Fernando Boronat,Jack Jansen,2018-03-26 This book provides an approachable overview of the most recent advances in the fascinating field of media synchronization (mediasync), gathering contributions from the most representative and influential experts. Understanding the challenges of this field in the current multi-sensory, multi-device, and multi-protocol world is not an easy task. The book revisits the foundations of mediasync, including theoretical frameworks and models, highlights ongoing research efforts, like hybrid broadband broadcast (HBB) delivery and users' perception modeling (i.e., Quality of Experience or QoE), and paves the way for the future (e.g., towards the deployment of multi-sensory and ultra-realistic experiences). Although many advances around mediasync have been devised and deployed, this area of research is getting renewed attention to overcome remaining challenges in the next-generation (heterogeneous and ubiquitous) media ecosystem. Given the significant advances in this research area, its current relevance and the multiple disciplines it involves, the availability of a reference book on mediasync becomes necessary. This book fills the gap in this context. In particular, it addresses key aspects and reviews the most relevant contributions within the mediasync research space, from different perspectives. Mediasync: Handbook on Multimedia Synchronization is the perfect companion for scholars and practitioners that want to acquire strong knowledge about this research area, and also approach the challenges behind ensuring the best mediated experiences, by providing the adequate synchronization between the media elements that constitute these experiences.

Shared-Memory Synchronization Michael L. Scott,2022-05-31 From driving, flying, and swimming, to digging for unknown objects in space exploration, autonomous robots take on varied shapes and sizes. In part, autonomous robots are designed to perform tasks that are too dirty, dull, or dangerous for humans. With nontrivial autonomy and volition, they may soon claim their own place in human society. These robots will be our allies as we strive for understanding our natural and man-made environments and build positive synergies around us. Although we may never perfect replication of biological capabilities in robots, we must harness the inevitable emergence of robots that synchronizes with our own capacities to live, learn, and grow. This book is a snapshot of motivations and methodologies for our collective attempts to transform our lives and enable us to cohabit with robots that work with and for us. It reviews and guides the reader to seminal and continual developments that are the foundations for successful paradigms. It attempts to demystify the abilities and limitations of robots. It is a progress report on the continuing work that will fuel future endeavors. Table of Contents: Part I: Preliminaries/Agency, Motion, and Anatomy/Behaviors / Architectures / Affect/Sensors / Manipulators/Part II: Mobility/Potential Fields/Roadmaps / Reactive Navigation / Multi-Robot Mapping: Brick and Mortar Strategy / Part III: State of the Art / Multi-Robotics Phenomena / Human-Robot Interaction / Fuzzy Control / Decision Theory and Game Theory / Part IV: On the Horizon / Applications: Macro and Micro Robots / References / Author Biography / Discussion

Computer Network Time Synchronization David L. Mills,2006-03-24 What started with the sundial has, thus far, been refined to a level of precision based on atomic resonance: Time. Our obsession with time is evident in this continued scaling down to nanosecond resolution and beyond. But this obsession is not without warrant. Precision and time synchronization are critical in many applications, such as air traffic

Synchronization Algorithms and Concurrent Programming Gadi Taubenfeld,2006 The first textbook that focuses purely on Synchronization - a fundamental challenge in Computer Science that is fast becoming a major performance and design issue for concurrent programming on modern architectures, and for the design of distributed systems.

Synchronization Arkady Pikovsky,Y. L. Maistrenko,2012-12-06 Synchronization is a universal phenomenon that is encountered in nature, science and engineering. The book presents a broad view of modern theoretical and

experimental approaches to synchronization, especially in complex and chaotic systems, and its applications in life sciences and engineering. Contributors include applied mathematicians, physicists, biologists, and specialists in communications and control theory. The study of synchronization is presented in its many aspects: basic mathematical theory, numerical simulation of complex systems, applications of methods in theoretical physics, experimental implementation, and applications in engineering and life sciences.

Emergence of Dynamical Order Susanna C Manrubia,Alexander S Mikhailov,Damián H Zanette,2004-04-14 ' Synchronization processes bring about dynamical order and lead to spontaneous development of structural organization in complex systems of various origins, from chemical oscillators and biological cells to human societies and the brain. This book provides a review and a detailed theoretical analysis of synchronization phenomena in complex systems with different architectures, composed of elements with periodic or chaotic individual dynamics. Special attention is paid to statistical concepts, such as nonequilibrium phase transitions, order parameters and dynamical glasses. Contents:Synchronization and Clustering of Periodic Oscillators:Ensembles of Identical Phase OscillatorsHeterogeneous Ensembles and the Effects of NoiseOscillator NetworksArrays of Limit-Cycle OscillatorsSynchronization and Clustering in Chaotic Systems:Chaos and SynchronizationSynchronization in Populations of Chaotic ElementsClusteringDynamical GlassesSelected Applications:Chemical SystemsBiological CellsNeural Networks Readership: Graduate students and academics interested in complex systems. Keywords:Self-Organization;Nonlinear Dynamics;Chaos;Collective Synchronization;Dynamical Clustering;Hierarchical OrderReviews:“This book makes an additional contribution to the topic paying special attention to statistical concepts, such as nonequilibrium phase transitions, order parameters and dynamical glasses. Another distinguishing feature of the book is that it includes applications in chemistry, cell biology, and brain science.”Zentralblatt MATH '

Synchronization, from Reel to Reel Jeffrey Carl Rona,1990 This book provides a step-by-step explanation of the tools needed to work with multitrack tape, film and video - how each technology works, how it is used, when it is most appropriate, and what can go wrong. From recording set-ups using home recording equipment, up to top professional recording, film and television studios, you will see how the devices that play such an important role in today's music recording are selected, interconnected and used. Filled with diagrams, charts and photographs, as well as a complete glossary. Updated to include information on project studios, Modular Digital Multitracks, Time Code DAT, MIDI Machine Control, and more.

Synchronization in Networks of Nonlinear Circuits Mattia Frasca,Lucia Valentina Gambuzza,Arturo Buscarino,Luigi Fortuna,2018-03-10 This book addresses synchronization in networks of coupled systems. It illustrates the main aspects of the phenomenon through concise theoretical results and code, allowing readers to reproduce them and encouraging readers to pursue their own experimentation. The book begins by introducing the mathematical representation of nonlinear circuits and the code for their simulation. This is followed by a brief account of the concept of the complex network, which describes the main aspects of complex networks and the main model types, with a particular focus on the code used to study and reproduce the models. The focus then shifts to the process through which independent nonlinear circuits that follow different trajectories without coupling share some properties of their motion: synchronization. The authors present the main techniques for studying synchronization in complex networks, including the major measures, the stability properties and control techniques. The book then moves on to advanced topics in synchronization of complex networks by examining forms of synchronization in which not all the units share the same trajectory, namely chimera states, clustering synchronization, and relay and remote synchronization. Simple codes for experimentation with these topics and control methods are also provided. In closing, the book addresses the problem of synchronization in time-varying networks.

Synchronization in Complex Networks of Nonlinear Dynamical Systems Chai Wah Wu,2007 This book brings together two emerging research areas: synchronization in coupled nonlinear systems and complex networks, and study conditions under which a complex network of dynamical systems synchronizes. While there are many texts that study synchronization in chaotic systems or properties of complex networks, there are few texts that consider the intersection of these two very active and interdisciplinary research areas. The main theme of this book is that synchronization conditions can be related to graph theoretical properties of the underlying coupling topology. The book introduces ideas from systems theory, linear algebra and graph theory and the synergy between them that are necessary to derive synchronization conditions. Many of the results, which have been obtained fairly recently and have until now not appeared in textbook form, are presented with complete proofs. This text is suitable for graduate-level study or for researchers who would like to be better acquainted with the latest research in this area. Sample Chapter(s). Chapter 1: Introduction (76 KB). Contents: Graphs, Networks, Laplacian Matrices and Algebraic Connectivity; Graph Models; Synchronization in Networks of Nonlinear Continuous-Time Dynamical Systems; Synchronization in Networks of Coupled Discrete-Time Systems; Synchronization in Network of Systems with Linear Dynamics; Agreement and Consensus Problems in Groups of Interacting Agents. Readership: Graduate students and researchers in physics, applied mathematics and engineering.

Dynamical System Synchronization Albert C. J. Luo,2013-03-22 Dynamical System Synchronization (DSS) meticulously presents for the first time the theory of dynamical systems synchronization based on the local singularity theory of discontinuous dynamical systems. The book details the sufficient and necessary conditions for dynamical systems synchronizations, through extensive mathematical expression. Techniques for engineering implementation of DSS are clearly presented compared with the existing techniques.

Robust Synchronization of Chaotic Systems via Feedback Ricardo Femat,Gualberto Solis-Perales,2009-01-23 This pages include the results derived during last ten years about both suppression and synchronization of chaotic - continuous time- systems. Along this time, our concept was to study how the intrinsic properties of dynamical systems can be exploited to suppress and to synchronize the chaotic behavior and what synchronization phenomena can be found under feedback interconnection. Our findings have caused surprise to us and have stimulated our astonishing capability. Perhaps, reader can imagine our faces with open eyes like children seeing around objects; which are possibly obvious for others and novel for us. A compilation of our surprises about these findings is being described along this book. Book contains both objectives to share our achievement and to show our perspective on synchronization of chaotic systems. Thus, while we were writing the preface, we discussed its scope. Thinking as a book readers, we found that a preface should answer, in few words, the following question: What can the reader find in this book?, reader can find our steps toward understanding of chaotic behavior and the possibility of suppressing and synchronizing it. We firstly show the chaos suppression from experimental domain to potential implementation in high tech system as a levitation system based on High Temperature Superconductors (HTS). This chapter is used as departing point towards a more complicated problem the chaotic synchronization. Then, reader travels by the synchronization of the chaotic behavior world throughout distinct feedback approaches.

Impulsive Synchronization of Complex Dynamical Networks Ze Tang,Dong Ding,Yan Wang,Zhicheng Ji,Ju H. Park,2021-09-03 This book is mainly focused on the global impulsive synchronization of complex dynamical networks with different types of couplings, such as general state coupling, nonlinear state coupling, time-varying delay coupling, derivative state coupling, proportional delay coupling and distributed delay coupling. Studies on

impulsive synchronization of complex dynamical networks have attracted engineers and scientists from various disciplines, such as electrical engineering, mechanical engineering, mathematics, network science, system engineering. Pursuing a holistic approach, the book establishes a fundamental framework for this topic, while emphasizing the importance of network synchronization and the significant influence of impulsive control in the design and optimization of complex networks. The primary audience for the book would be the scholars and graduate students whose research topics including the network science, control theory, applied mathematics, system science and so on.

Chaos Synchronization and Cryptography for Secure Communications: Applications for Encryption Banerjee, Santo,2010-07-31 Over the past few decades, there has been numerous research studies conducted involving the synchronization of dynamical systems with several theoretical studies and laboratory experimentations demonstrating the pivotal role for this phenomenon in secure communications. Chaos Synchronization and Cryptography for Secure Communications: Applications for Encryption explores the combination of ordinary and time delayed systems and their applications in cryptographic encoding. This innovative publication presents a critical mass of the most sought after research, providing relevant theoretical frameworks and the latest empirical research findings in this area of study.

Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks Radha Poovendran,Cliff Wang,Sumit Roy,2007-12-03 This book presents the latest research results in the area of secure localization for both wireless mobile ad hoc networks and wireless sensor networks. It is suitable as a text for computer science courses in wireless systems and security. It includes implementation studies with mica2 mote sensors. Due to the open spectrum nature of wireless communication, it is subject to attacks and intrusions. Hence the wireless network synchronization needs to be both robust and secure. Furthermore, issues such as energy constraints and mobility make the localization process even more challenging. The book will also interest developers of secure wireless systems.

NextGen Network Synchronization Dhiman Deb Chowdhury,2021-05-15 This book presents time synchronization and its essential role as a conduit of optimized networks and as one of the key imperatives of ubiquitous connectivity. The author discusses how, without proper time synchronization, many mission critical infrastructures such as 5G mobile networks, smart grids, data centres CATV, and industrial networks would render in serious performance issues and may be subject to catastrophic failure. The book provides a thorough understanding of time synchronization from fundamental concepts to the application of time synchronization in NextGen mission critical infrastructure. Readers will find information not only on designing the optimized products for mission critical infrastructure but also on building NextGen mission critical infrastructure.

The book delves into Synchronization. Synchronization is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Synchronization, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Synchronization
 - Chapter 2: Essential Elements of Synchronization
 - Chapter 3: Synchronization in Everyday Life
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2. In chapter 1, this book will provide an overview of Synchronization. This chapter will explore what Synchronization is, why Synchronization is vital, and how to effectively learn about Synchronization.
3. In chapter 2, the author will delve into the foundational concepts of Synchronization. The second chapter will elucidate the essential principles that need to be understood to grasp Synchronization in its entirety.
4. In chapter 3, the author will examine the practical applications of Synchronization in daily life. This chapter will showcase real-world examples of how Synchronization can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Synchronization in specific contexts. This chapter will explore how Synchronization is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Synchronization. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Synchronization.

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