Structural Synchronizer View

Hung Keng Pung,Tat Seng Chua

Parameter Identification and Monitoring of Mechanical Systems Under Nonlinear Vibration Juan Carlos A. Jauregui Correa,2014-12-11 Development of new sensors and digital processors has provided opportunity for identification of nonlinear systems. Vibration measurements have become standard for predicting and monitoring machinery in industry. Parameter Identification and Monitoring of Mechanical Systems under Nonlinear Vibration focusses on methods for the identification of nonlinearities in mechanical systems, giving description and examples of practical application. Chapters cover nonlinear dynamics; nonlinear vibrations; signal processing; parameter identification; application of signal processing to mechanical systems; practical experience and industrial applications; and synchronization of nonlinear systems. Covers the most recent advances in machinery monitoring Describes the basis for nonlinear dynamics Presents advantages of applying modern signal processing to mechanical systems

Stability, Structures and Chaos in Nonlinear Synchronization Networks V S Afraimovich,V I Nekorkin,G V Osipov,V D Shalfeev,1995-01-16 The understanding of fields and media using discrete lattice models has been greatly aided by the advent of powerful computers. This has also led to the formulation of new and inspiring problems associated with the analysis of homogeneous discrete networks of interacting dynamical elements. This book investigates the nonlinear dynamics of peculiar discrete media made up of interconnected phase synchronization systems. After an introduction which sets out the nature of the problem, the book goes on to consider dynamic processes in chain and lattice networks, utilising both continuous and discrete synchronization systems as component elements. Computational studies aimed at oscillatory-wave phenomena will make the book valuable for specialists in radio engineering, biological excitable media and other branches of physics and biology as well as specialists in applied mathematics and nonlinear sciences. Contents:Basic Models, Dynamics of a Chain of Phase Lock-Loop Systems with Unidirectional CouplingEffect of Inertia of Elements on the Dynamics of a Flow ChainChains with Mutual CouplingChains with Coupling through Phase Mismatching SignalsNonlinear Dynamics of LatticesAnalysis of Stationary Synchronization RegimesSome Remarks on Other Kinds of Chains of Synchronization SystemsStability and Chaos in the Chains of Discrete Phase-Lock LoopsDynamics of a Ring Chain of Discrete SystemsOrder and Chaos in the Discrete Model of an Active MediumResults and Problems Readership: Nonlinear scientists and engineers. keywords:

Chaos, Synchronization and Structures in Dynamics of Systems with Cylindrical Phase Space Nikolai Verichev,Stanislav Verichev,Vladimir Erofeev,2020-01-01 This book develops analytical methods for studying the dynamical chaos, synchronization, and dynamics of structures in various models of coupled rotators. Rotators and their systems are defined in a cylindrical phase space, and, unlike oscillators, which are defined in Rn, they have a wider "range" of motion: There are vibrational and rotational types for cyclic variables, as well as their combinations (rotational-vibrational) if the number of cyclic variables is more than one. The specificity of rotator phase space poses serious challenges in terms of selecting methods for studying the dynamics of related systems. The book chiefly focuses on developing a modified form of the method of averaging, which can be used to study the dynamics of rotators. In general, the book uses the "language" of the qualitative theory of differential equations, point mappings, and the theory of bifurcations, which helps authors to obtain new results on dynamical chaos in systems with few degrees of freedom. In addition, a special section is devoted to the study and classification of dynamic structures that can occur in systems with a large number of interconnected objects, i.e. in lattices of rotators and/or oscillators. Given its scope and format, the book can be used both in lectures and courses on nonlinear dynamics, and in specialized courses on the development and operation of relevant systems that can be represented by a large number of various practical systems: interconnected grids of various mechanical systems, various types of networks including not only mechanical but also biological systems, etc.

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.

New Trends in Software Process Modelling ,

Multimedia Modeling (Mmm'97): Modeling Multimedia Information And Systems Hung Keng Pung,Tat Seng Chua,1997-11-12 The world is inherently complex and multimedia in nature. The development of computer systems to tackle real-world problems is an extremely difficult task. As computers capable of manipulating multimedia information are becoming more powerful and commonplace, larger and more complex systems are increasingly being built. To fully comprehend the complexity of such undertakings, proper modeling of multimedia information and systems must be carried out.A model provides a high-level abstraction of the system in which the implementation is based upon. It permits the desirable properties of the system to be extracted and analyzed and also provides a uniform framework for integration between different systems, and for interactions between the system and human users.This volume is devoted to the discussion of effective modeling of multimedia information and systems for a wide range of applications. It aims to provide common modeling frameworks for the integration of the diverse subjects in the field of multimedia information.

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 phen- ena 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 opens 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 ama- ment 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 c- otic behavior and the possibility of suppressing and synchronizing it. We firstly show the chaos suppression form 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.

New Trends in Software Process Modeling Silvia T. Acuna,Maria Isabel S nchez-Segura,2006 Over the years, a variety of software process models have been designed to structure, describe and prescribe the software systems construction process. More recently, software process modelling is increasingly dealing with new challenges raised by the tests that the software industry has to face.This book addresses these new trends in software process modeling related to: ? Processes for open source software;? Systems dynamics to model and simulate the software process;? Peopleware: the importance of people in the software development and by extension in the software process.One new software development trend is the development of open source projects. As such projects are a recent creation, the process model governing this type of developments is unfamiliar. This book deals with process modeling for open source software. It also deals with software process simulation applied to the management of software projects and improves the software development process capability according to CMM (Capability Maturity Model).Software development is a conjunction of: the organizational environment, the social environment and the technological environment. The inclusion of these environments will make it possible to output software process models that meet the specified organizational, cultural and technological requirements, providing an exhaustive analysis of

the people in the software process, as well as supporting people-oriented software development. This book deals with the development of software by means of people-oriented process models that have proven to be very beneficial

Concurrency in Programming and Database Systems Arthur J. Bernstein,Philip M. Lewis,1993 This book is intended for a senior-level undergraduate or a graduate course in a computer science or engineering department. The prerequisites for the book are general in nature. A student should have the mathematical sophistication of a senior in computer science or engineering, be comfortable with the techniques for constructing ordinary sequential programs, and be familiar with practical issues relating to concurrency in the operating systems area. This foundation can be supplied by the standard, introductory-level, undergraduate mathematics and computer science courses, together with an undergraduate course in operating systems. We review much of this material in the first three chapters of the book. Chapter 1 covers those aspects of an undergraduate operating systems course that are relevant, while Chapters 2 and 3 contain an introduction to the mathematics of formal reasoning and develop the Hoare logic approach to reasoning about sequential programs. In Chapter 3 we present methods for reasoning about abstract data types. Later we use abstract data types as a structuring mechanism when we consider monitors, remote procedure calls, and databases. Also in Chapter 3 we discuss coroutines which, although sequential, involve some of the same reasoning techniques as concurrent constructs. Chapters 4 and 5 cover shared memory systems, including critical sections, semaphores, and monitors. Chapters 6, 7, and 8 cover message passing systems, including synchronous and asynchronous message passing, virtual circuits and datagrams, and remote procedure calls and rendezvous. Chapter 9 discusses failures in centralized and distributed systems, including failure atomicity and stable storage. It also contains several distributed algorithms relevant to issues in the text, including distributed synchronization, the Byzantine Generals Problem, and clock synchronization. Chapters 10, 11, and 12 discuss centralized and distributed transaction processing systems. Topics include typed and untyped databases, nested transactions, replication, and atomic commit protocols. We develop the design theory of database concurrency control and failure atomicity. We show how this theory can be used to obtain increased concurrency in object oriented databases, where the database items are instances of abstract data types. Distributed algorithms for leader election are also introduced because of their relationship to atomic commit protocols.

Multimedia Modeling: Towards Information Superhighway Tat Seng Chua,1995-11-10 The process of integrating multiple senses and media into computer systems accelerated recently. This has broaden the applications of multimedia from the traditional areas of information organization, presentation and learning, to the new fields of simulation and virtual reality. Applications that have benefited from the introduction of multimedia include: training, demonstration of products for sales or inventory, education, computer-aided design and engineering, medicine, weather, and entertainment.This volume is devoted to the discussion of effective modeling of multimedia information and systems for a wide range of applications. It is perhaps the only book that devotes entirely to this important but much neglected topic.

Legal Writings Anthology Vol-9 Prof. Dr. O.C. Kaligis, S.H., M.H.,2021-04-20 This book is written due to the request of numerous parties, institutions and organizations that wishes to know about Indonesian legal system and legal framework. I have published numerous books in the form of 'Legal Anthology', but most of them are in Indonesian, with numerous English legal writings scattered in those numerous anthology legal writings. In this particular book (volume 9), all of the English legal writings (in volume 1 to 8) that I have written are specially compiled in a systematic manner. I hope that the publication of this book will help foreign lawyers and institution to have insight and gain knowledge of Indonesian legal system and also exposure to my firm's legal work. I would like to thanks Ms. Haghia Sophia Lubis S.H., LL.M. for helping me in editing this particular book. This book is written with the help of numerous parties whom which I might not have mentioned, and for that I would like to apologize. It is my sincere aim that this book will help the development of Indonesian legal system and foster relationship and understanding between countries that intends to cooperate in legal matters with Indonesia.

The Component Kas Oosterhuis,2023-12-07 The Component: A Personal Odyssey towards Another Normal is the Oosterhuis' personal account of four decades of architectural and societal thinking, designing, building, and theorizing. It is an orchestrated yet non-linear series of subjects all leading toward the creation of a parallel world called Another Normal. Another Normal is as of now a hypothetical parallel world. Nomadic international citizens are the inhabitants of Another Normal. Urged by the climate crisis, the food, energy, and water nexus, and the COVID-19 pandemic, Another Normal demonstrates the inevitable data-driven techno-social architecture of the physically built environment and the metaverse. Besides robotic production on demand of almost anything – when, where, and as needed – Oosterhuis' proposes a dozen strategies that run in parallel to establish Another Normal, among others: ubiquitous basic income, global birthright to own a generous piece of land, distributed production of healthy food, clean energy, and drinking water, ownership of private data and personal avatars in the Web 3.0, autonomous electronic transportation, ubiquitous shared responsibility for clean production and waste treatment techniques, ubiquitous home delivery, working from anywhere for any period of time, and decentralized real-time peer to peer banking. The organic real and the synthetic hyper-real co-evolve naturally in Another Normal, where a mix of strong and simple legislative, planning, and design rules create complexity, diversity, fairness, and equality.

ICLSSEE 2023 Meida Rachmawati,Faisal Santiago,Eko Eddya Supriyanto,2023-07-10 This book contains the proceedings of the International Conference on Law, Social Science, Economics, and Education (ICLSSEE 2023) on 6 May 2023 in Indonesia. This conference was held in collaboration with Nusantara Training and Research (NTR) at Universitas Borobudur, Jakarta, Indonesia. Papers from the conference are collected in a book of proceedings entitled: Proceedings of the International Conference on Law, Social Sciences, Economics, and Education (ICLSSEE 2023). Presentations from the conference covering these disciplines will provide a lot of inspiring input and new treasures on law, social sciences, economics, and education, especially after the Covid-19 Pandemic. Thus, it will contribute to the next generation of young researchers to generate innovative research findings and ideas. The hope is that scientific attitudes and skills through research will encourage the development of knowledge produced through research from various scholars in various regions. Finally, we would like to express our sincere thanks to all of the steering committee colleagues for their cooperation in organizing the conference. Hopefully, these seminars and conferences can be continued in the coming years with more insightful articles from inspiring research. We would also like to thank the invited speakers for their invaluable contributions and for sharing their visions in their talks.

Generative and Transformational Techniques in Software Engineering III Joao M Fernandes,Ralf Lämmel,Joost Visser,João Saraiva,2011-01-03 This tutorial book presents revised and extended lecture notes for a selection of the contributions presented at the International Summer School on Generative and Transformational Techniques in Software Engineering (GTTSE 2009), which was held in Braga, Portugal, in July 2009. The 16 articles comprise 7 long tutorials, 6 short tutorials and 3 participants contributions; they shed light on the generation and transformation of programs, data, models, metamodels, documentation, and entire software systems. The topics covered include software reverse and re-engineering, model driven engineering, automated software engineering, generic language technology, and software language engineering.

Synchronization, Swarming and Emergent Behaviors in Complex Networks and Neuroscience Andrea Duggento,Spase Petkoski,Tomislav Stankovski,Nicola Toschi,2022-03-24

Metamaterial Design and Additive Manufacturing Bo Song,Aiguo Zhao,Lei Zhang,Pengfei Wang,Xiaobo Wang,Yusheng Shi,2023-04-24 Metamaterial Design and Additive Manufacturing covers optimization design, manufacturing, microstructure, mechanical properties, acoustic properties, mass-transport properties and application examples of PMs fabricated by selective laser melting additive manufacturing technology. The book introduces the definition and concept of pentamode metamaterials and then describes their characterization, including manufacturing fidelity, mechanical response, acoustic properties and so on. Final sections analyze research situations, problems and applications of additive manufacturing pentamode metamaterials. Covers design and optimization methods of pentamode metamaterials Describes manufacturing fidelity, microstructure and physical properties of pentamode metamaterials fabricated by AM Includes recent applications for pentamode metamaterials, along with research situations and potential problems

Synchronization and Arbitration in Digital Systems David J. Kinniment,2008-02-28 Today's networks of processors on and off chip, operating

with independent clocks, need effective synchronization of the data passing between them for reliability. When two or more processors request access to a common resource, such as a memory, an arbiter has to decide which request to deal with first. Current developments in integrated circuit processing are leading to an increase in the numbers of independent digital processing elements in a single system. With this comes faster communications, more networks on chip, and the demand for more reliable, more complex, and higher performance synchronizers and arbiters. Written by one of the foremost researchers in this area of digital design, this authoritative text provides in-depth theory and practical design solutions for the reliable working of synchronization and arbitration hardware in digital systems. The book provides methods for making real reliability measurements both on and off chip, evaluating some of the common difficulties and detailing circuit solutions at both circuit and system levels. Synchronization and Arbitration in Digital Systems also presents: mathematical models used to estimate mean time between failures in digital systems; a summary of serial and parallel communication techniques for on-chip data transmission; explanations on how to design a wrapper for a locally synchronous cell, highlighting the issues associated with stoppable clocks; an examination of various types of priority arbiters, using signal transition graphs to show the specification of different designs (from the simplest to more complex multi-way arbiters) including ways of solving problems encountered in a wide range of applications; essential information on systems composed of independently timed regions, including a discussion on the problem of choice and the factors affecting the time taken to make choices in electronics. With its logical approach to design methodology, this will prove an invaluable guide for electronic and computer engineers and researchers working on the design of digital electronic hardware. Postgraduates and senior undergraduate students studying digital systems design as part of their electronic engineering course will struggle to find a resource that better details the information given inside this book

Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 7 Antonio Baldi,Simon Quinn,Xavier Balandraud,Janice M. Dulieu-Barton,Sven Bossuyt,2018-10-09 Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 7 of the Proceedings of the 2018 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the seventh volume of eight from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of areas, including: Inverse Problems/Hybrid Techniques Material Characterizations Using Thermography Thermoelastic Stress Analysis Fatigue & Damage Evaluation Using Infrared Thermography Integration of Infrared Thermography & DIC Thermographic Non-Destructive Evaluation (NDE)

From Static to Dynamic Couplings in Consensus and Synchronization Among Identical and Non-Identical Systems Peter Wieland,2010 In a systems theoretic context, the terms 'consensus' and 'synchronization' both describe the property that all individual systems in a group behave asymptotically identical, i.e., output or state trajectories asymptotically converge to a common trajectory. The objective of the present thesis is an improved understanding of some of the diverse coupling mechanisms leading to consensus and synchronization. A starting point is the observation that classical consensus and synchronization results commonly deal with two distinct facets of the problem: Consensus has regularly a strong focus on the interconnections and related constraints while synchronization typically addresses questions about complex individual dynamical systems. Very few results exist that address both facets simultaneously. A thorough analysis of static couplings in consensus algorithms provides explanations for this observation by unveiling limitations inherent to this type of couplings. Novel dynamic coupling mechanisms are proposed to overcome these limitations. These methods essentially rely on an internal model principle for consensus and synchronization derived in the thesis. This principle provides necessary conditions for consensus and synchronization in groups of non-identical systems, and it establishes a link to the output regulation problem. The fresh point of view revealed by this link eventually leads to a new hierarchical mechanism for consensus and synchronization among complex non-identical systems with weak assumptions on the interconnections. Applications include synchronization of linear systems and phase synchronization of nonlinear oscillators.

Computational and Experimental Studies Y. Villacampa,G.M. Carlomagno,S. Ivorra,C. A. Brebbia,2018-03-28 Comprising specially selected papers on the subject of Computational Methods and Experimental Measurements, this book includes research from scientists, researchers and specialists who perform experiments, develop computer codes and carry out measurements on prototypes. Improvements relating to computational methods have generated an ever-increasing expansion of computational simulations that permeate all fields of science and technology. Validating the results of these improvements can be achieved by carrying out committed and accurate experiments, which have undertaken continuous development. Current experimental techniques have become more complex and sophisticated so that they require the intensive use of computers, both for running experiments as well as acquiring and processing the resulting data. This title explores new experimental and computational methods and covers various topics such as: Computer-aided Models; Image Analysis Applications; Noise Filtration of Shockwave Propagation; Finite Element Simulations.

Unveiling the Magic of Words: A Review of "**Structural Synchronizer View**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Structural Synchronizer View**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

Structural Synchronizer View Introduction

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