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Control System Engineering (Anna University) Principles of Control Systems Advanced Information Systems Engineering Systems Engineering Principles of Control Systems Advanced Information Systems Engineering Advanced Information Systems Engineering Workshops Analysis and Solutions for Switching Noise Coupling in Mixed-Signal ICs Converter-Based Dynamics and Control of Modern Power Systems Bio-Systems Engineering for Regulating Nerve Regeneration From Hamiltonian Chaos to Complex Systems 18th European Symposium on Computer Aided Process Engineering Advanced Information Systems Engineering Orthogonal Waveforms and Filter Banks for Future Communication Systems Systems Engineering Electrical Energy Storage in Transportation Systems Radio over Fiber for Wireless Communications Systemic Design Methodologies for Electrical Energy Systems Food Process Engineering Research Challenges in Information Science Signals and Systems Regularity and Stochasticity of Nonlinear Dynamical Systems Controller Tuning with Evolutionary Multiobjective Optimization Engineering and Testing RNA-circuits in Cell-free Systems Modeling and Control of Hydrosystems Fuzzy Systems Engineering Social Modeling for Requirements Engineering Applied Bohmian Mechanics US Black Engineer & IT US Black Engineer & IT Embedded Systems Overview of Systems in Timber Engineering. Use of Cross-laminated Timber with Two Specific Examples Organizational Energy Special Section on Advanced Information Systems Engineering (CAiSE 2012) Swarm Intelligent Systems Multiobjective Programming and Goal Programming 14th International Symposium on Process Systems Engineering Enzyme Reaction Kinetics and Reactor Performance Advanced Information Systems Engineering Integrated Design by Optimization of Electrical Energy Systems

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This book constitutes the refereed proceedings of the 34th International Conference on Advanced Information Systems Engineering, CAiSE 2022, which was held in Leuven, Belgium, during June 6-10, 2022. The 31 full papers included in these proceedings were selected from 203 submissions. They were organized in topical sections as follows: Process mining; sustainable and explainable applications; tools and methods to support research and design; process modeling; natural language processing techniques in IS engineering; process monitoring and simulation; graph and network models; model analysis and comprehension; recommender systems; conceptual models, metamodels and taxonomies; and services engineering and digitalization. Systems in timber engineering. Use of Cross laminated timber with two concrete examples" is my Final Project of Grade. This project summarizes the most common timber systems used over time. It studies thoroughly the wood product "Cross laminated timber", which is a relatively new wood product that was first introduced in the 1990's in Austria and has gained popularity in residential and non-residential buildings in many European countries and around the world in the recent past. Two specific projects of two existing single-family houses are designed with CLT solid wood panels. This paper is divided into three parts: In the first part an overview of the construction systems in timber construction is given. The systems are introduced, their characteristics and loadbearing performance are explained in a superficial way. The second part deals with Cross laminated timber. In this chapter, an extensive study of this wood system is carried out. X-LAM, its abbreviation, is introduced in many general aspects as a product. All the specific and technic information which is shown is, in particular, form the Austrian firm "KLH Massivholz Gmbh", which I had the pleasure and honour to visit. And in the final third part, two projects of two single-family houses are shown. Starting from a basic plan of the house, which have been obtained from two architects with which I'm truly grateful for their help, X-LAM system is used to design the house. Floor plans, sections, details and concrete component connections are designed. This book presents recent developments in nonlinear dynamics and physics with an emphasis on complex systems. The contributors provide recent theoretic developments and new techniques to solve nonlinear dynamical systems and help readers understand complexity, stochasticity, and regularity in nonlinear dynamical systems. This book covers integro-differential equation solvability, Poincare recurrences in ergodic systems, orientable horseshoe structure, analytical routes of periodic motions to chaos, grazing on impulsive differential equations, from chaos to order in coupled oscillators, and differential-invariant solutions for automorphic

systems, inequality under uncertainty. Open-channel hydraulics are described by hyperbolic equations, derived from laws of conservation of mass and momentum, called Saint-Venant equations. In conjunction with hydraulic structure equations these are used to represent the dynamic behavior of water flowing in rivers, irrigation canals, and sewers. Building on a detailed analysis of open-channel flow modeling, this monograph constructs control design methodologies based on a frequency domain approach. In practice, many open-channel systems are controlled with classical input–output controllers that are usually poorly tuned. The approach of this book, fashioning pragmatic engineering solutions for the control of open channels is given rigorous mathematical justification. Once the control objectives are clarified, a generic control design method is proposed, first for a canal pool, and then for a whole canal. The methods developed in the book have been validated on several canals of various dimensions up to a large scale irrigation canal. This book provides a guide for systems engineering modeling and design. It focuses on the design life cycle with tools and application-based examples of how to design a system, focusing on incorporating systems principles and tools to ensure system integration. It provides product-based and service system examples to understand the models, tools, and activities to be applied to design and implement a system. The first section explains systems principles, models, and architecture for systems engineering, lifecycle models, and the systems architecture. Further sections explain systems design, development, and deployment life cycle with applications and tools and advanced systems engineering topics. Features: Focuses on model-based systems engineering and describes the architecture of the systems design models. Uses real-world examples to corroborate different and disparate systems engineering activities. Describes and applies the Vee systems engineering design methodology, with cohesive examples and applications of designing systems. Discusses culture change and the skills people need to design and integrate systems. Shows detailed and cohesive examples of the systems engineering tools throughout the systems engineering life cycle. This book is aimed at graduate students and researchers in systems engineering, modeling and simulation, any major engineering discipline, industrial engineering, and technology. This book proposes systemic design methodologies applied to electrical energy systems, in particular integrated optimal design with modeling and optimization methods and tools. It is made up of six chapters dedicated to integrated optimal design. First, the signal processing of mission profiles and system environment variables are discussed. Then, optimization-oriented analytical models, methods and tools (design frameworks) are proposed. A “multi-level optimization” smartly coupling several optimization processes is the subject of one chapter. Finally, a technico-economic optimization especially dedicated to electrical grids completes the book. The aim of this book is to summarize design methodologies based in particular on a systemic viewpoint, by

considering the system as a whole. These methods and tools are proposed by the most important French research laboratories, which have many scientific partnerships with other European and international research institutions. Scientists and engineers in the field of electrical engineering, especially teachers/researchers because of the focus on methodological issues, will find this book extremely useful, as will PhD and Masters students in this field. The Text book is arranged so that it can be used for self-study by the engineering in practice. Included are as many examples of feedback control system in various areas of practice while maintaining a strong basic feedback control text that can be used for study in any of the various branches of engineering. Provides a thorough study of the engineering of enzyme reactors, including comprehensive mathematical modeling and optimization Enzyme Reactor Engineering: Principles and Applications sequentially covers the three classical levels of description: macroscopic, or ideal; microscopic, or nonideal in terms of hydrodynamics (including homogeneous, nontrivial flow patterns, as well as heterogeneous systems); and submicroscopic, in terms of mixing. Major emphasis is placed on general simulation from first principles, rather than empirical correlation. This methodology rationally departs from balance equations, carefully eliminates overparameterization, and establishes dimensionless, simpler relationships; and builds on such models to find optima of relevance, while constructing rational strategies to approach common problems. This book begins with an organized introduction to enzyme reactor engineering, followed by two major parts—analysis of enzyme reaction kinetics, and analysis of enzyme reactor features. It concludes with a brief coverage of relevant mathematical concepts. A carefully paced approach, suitable even for nonspecialists, allows the reader to gain insight about the detailed kinetics of the reaction brought about by a general enzyme, and provides the complementary tools necessary to design and optimize the overall reactor behavior. Provides thorough study of the engineering of enzyme reactors, including comprehensive mathematical modeling, and coverage of additional topics (e.g. separation, control) required for effective integration and overall understanding Chapters introduce basic phenomenological principles and subsequently derive usable results, ending up with generic examples of germane applications Environmental concerns supporting white biotechnology, and a growing portfolio of available, tailored and less expensive enzymes on the market have turned enzyme reactors into a better and better performing (and recommended) technology for industrial implementation. Enzyme Reactor Engineering is thus the ideal text to support that effort—suitable for students, researchers, and practitioners working in chemical engineering, biochemistry, biological engineering, chemistry, physical chemistry, and applied physics. 14th International Symposium on Process Systems Engineering, Volume 49 brings together the international community of researchers and engineers interested in computing-based methods in process

engineering. The conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 2021 event held in Tokyo, Japan, July 1-23, 2021. It contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and covering future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering Food Process Engineering: Safety Assurance and Complements pursues a logical sequence of coverage of industrial processing of food and raw material where safety and complementary issues are germane. Measures to guarantee food safety are addressed at start, and the most relevant intrinsic and extrinsic factors are reviewed, followed by description of unit operations that control microbial activity via the supply of heat supply or the removal of heat. Operations prior and posterior are presented, as is the case of handling, cleaning, disinfection and rinsing, and effluent treatment and packaging, complemented by a brief introduction to industrial utilities normally present in a food plant. Key Features: Overviews the technological issues encompassing properties of food products Provides comprehensive mathematical simulation of food processes Analyzes the engineering of foods at large, and safety and complementary operations in particular, with systematic derivation of all relevant formulae Discusses equipment features required by the underlying processes This book provides a guide for systems engineering modeling and design. It focusses on the design life cycle with tools and application-based examples of how to design a system, focusing on incorporating systems principles and tools to ensure system integration. It provides a product-based and a service system examples to understand the models, tools, and activities to be applied to design and implement a system. First section explains systems principles, models and architecture for systems engineering, lifecycle models and the systems architecture. Further sections explain systems design, development and deployment lifecycle with applications and tools and advanced systems engineering topics. Features: Focusses on model-based systems engineering and describes the architecture of the systems design models. Uses real-world examples to corroborate different and disparate systems engineering activities. Describes and applies the Vee systems engineering design methodology, with cohesive examples and application of designing systems. Discusses culture change and the skills people need to design and integrate systems. Shows detailed and cohesive examples of the systems engineering tools throughout the systems engineering life cycle. This book aims at Graduate students and Researchers in Systems engineering, Modeling and

Simulation, any major engineering discipline, industrial engineering, and technology Since the construction of the first embedded system in the 1960s, embedded systems have continued to spread. They provide a continually increasing number of services and are part of our daily life. The development of these systems is a difficult problem which does not yet have a global solution. Another difficulty is that systems are plunged into the real world, which is not discrete (as is generally understood in computing), but has a richness of behaviors which sometimes hinders the formulation of simplifying assumptions due to their generally autonomous nature and they must face possibly unforeseen situations (incidents, for example), or even situations that lie outside the initial design assumptions.

Embedded Systems presents the state of the art of the development of embedded systems and, in particular, concentrates on the modeling and analysis of these systems by looking at “model-driven engineering”, (MDE2): SysML, UML/MARTE and AADL. A case study (based on a pacemaker) is presented which enables the reader to observe how the different aspects of a system are addressed using the different approaches. All three systems are important in that they provide the reader with a global view of their possibilities and demonstrate the contributions of each approach in the different stages of the software lifecycle. Chapters dedicated to analyzing the specification and code generation are also presented.

Contents Foreword, Brian R. Larson. Foreword, Dominique Potier. Introduction, Fabrice Kordon, Jérôme Hugues, Agusti Canals and Alain Dohet. Part 1. General Concepts 1. Elements for the Design of Embedded Computer Systems, Fabrice Kordon, Jérôme Hugues, Agusti Canals and Alain Dohet. 2. Case Study: Pacemaker, Fabrice Kordon, Jérôme Hugues, Agusti Canals and Alain Dohet. Part 2. SysML 3. Presentation of SysML Concepts, Jean-Michel Bruel and Pascal Roques. 4. Modeling of the Case Study Using SysML, Loïc Fejoz, Philippe Leblanc and Agusti Canals. 5. Requirements Analysis, Ludovic Apvrille and Pierre De Saqui-Sannes. Part 3. MARTE 6. An Introduction to MARTE Concepts, Sébastien Gérard and François Terrier. 7. Case Study Modeling Using MARTE, Jérôme Delatour and Joël Champeau. 8. Model-Based Analysis, Frederic Boniol, Philippe Dhaussy, Luka Le Roux and Jean-Charles Roger. 9. Model-Based Deployment and Code Generation, Chokri Mraidha, Ansgar Radermacher and Sébastien Gérard. Part 4. AADL 10. Presentation of the AADL Concepts, Jérôme Hugues and Xavier Renault. 11. Case Study Modeling Using AADL, Etienne Borde. 12. Model-Based Analysis, Thomas Robert and Jérôme Hugues. 13. Model-Based Code Generation, Laurent Pautet and Béchir Zalila. This book describes a modeling approach (called the i^* framework) that conceives of software-based information systems as being situated in environments in which social actors relate to each other in terms of goals to be achieved, tasks to be performed, and resources to be furnished. This book constitutes the refereed proceedings of the 24th International Conference on Advanced Information Systems Engineering, CAiSE

2012, held in Gdansk, Poland, in June 2012. The 42 revised full papers, 2 full-length invited papers and 4 short tutorial papers, were carefully reviewed and selected from 297 submissions. The contributions have been grouped into the following topical sections: business process model analysis; service and component composition; language and models; system variants and configuration; process mining; ontologies; requirements and goal models; compliance; monitoring and prediction; services; case studies; business process design; feature models and product lines; and human factors. The Text book is arranged so that it can be used for self-study by the engineering in practice. Included are as many examples of feedback control system in various areas of practice while maintaining a strong basic feedback control text that can be used for study in any of the various branches of engineering. Converter-Based Dynamics and Control of Modern Power Systems addresses the ongoing changes and challenges in rotating masses of synchronous generators, which are transforming dynamics of the electrical system. These changes make it more important to consider and understand the role of power electronic systems and their characteristics in shaping the subtleties of the grid and this book fills that knowledge gap. Balancing theory, discussion, diagrams, mathematics, and data, this reference provides the information needed to acquire a thorough overview of resilience issues and frequency definition and estimation in modern power systems. This book offers an overview of classical power system dynamics and identifies ways of establishing future challenges and how they can be considered at a global level to overcome potential problems. The book is designed to prepare future engineers for operating a system that will be driven by electronics and less by electromechanical systems. Includes theory on the emerging topic of electrical grids based on power electronics Creates a good bridge between traditional theory and modern theory to support researchers and engineers Links the two fields of power systems and power electronics in electrical engineering Organizational Energy presents a powerful and proven method for transforming organizations. Its power comes from a new understanding of organizations as living systems with their own vital energy, rather than simply mechanistic engines striving to meet their financial targets. Using the analogy between the human energy system and the organizational energy system leaders are able to understand and improve business excellence from a different perspective and improve the health and prosperity of their organizations. This new way of thinking reflects a fundamental shift in business towards more sustainable ways of engaging people and husbanding our limited resources. Many organizations have not just suffered financial problems in the most recent recession; they face the deeper issues of lost trust and growing scepticism about their very purpose. They now need help to heal and prosper. In this book we propose such a way, by moving beyond the old, narrow mechanistic models of organizations to a more fluid and systemic perspective of organizations and the environments in which they exist.

We believe that we must raise our organizational consciousness. And, that we must learn to act with a more profound understanding of the interconnectedness of the modern business landscape. The 18th European Symposium on Computer Aided Process Engineering contains papers presented at the 18th European Symposium of Computer Aided Process Engineering (ESCAPE 18) held in Lyon, France, from 1-4 June 2008. The ESCAPE series brings the latest innovations and achievements by leading professionals from the industrial and academic communities. The series serves as a forum for engineers, scientists, researchers, managers and students from academia and industry to: - present new computer aided methods, algorithms, techniques related to process and product engineering, - discuss innovative concepts, new challenges, needs and trends in the area of CAPE. This research area bridges fundamental sciences (physics, chemistry, thermodynamics, applied mathematics and computer sciences) with the various aspects of process and product engineering. The special theme for ESCAPE-18 is CAPE for the Users! CAPE systems are to be put in the hands of end users who need functionality and assistance beyond the scientific and technological capacities which are at the core of the systems. The four main topics are: - off-line systems for synthesis and design, - on-line systems for control and operation, - computational and numerical solutions strategies, - integrated and multi-scale modelling and simulation, Two general topics address the impact of CAPE tools and methods on Society and Education. * CD-ROM that accompanies the book contains all research papers and contributions * International in scope with guest speeches and keynote talks from leaders in science and industry * Presents papers covering the latest research, key top areas and developments in Computer Aided Process Engineering

From Hamiltonian Chaos to Complex Systems: A Nonlinear Physics Approach collects contributions on recent developments in non-linear dynamics and statistical physics with an emphasis on complex systems. This book provides a wide range of state-of-the-art research in these fields. The unifying aspect of this book is demonstration of how similar tools coming from dynamical systems, nonlinear physics, and statistical dynamics can lead to a large panorama of research in various fields of physics and beyond, most notably with the perspective of application in complex systems. Modern microelectronic design is characterized by the integration of full systems on a single die. These systems often include large high performance digital circuitry, high resolution analog parts, high driving I/O, and maybe RF sections. Designers of such systems are constantly faced with the challenge to achieve compatibility in electrical characteristics of every section: some circuitry presents fast transients and large consumption spikes, whereas others require quiet environments to achieve resolutions well beyond millivolts. Coupling between those sections is usually unavoidable, since the entire system shares the same silicon substrate bulk and the same package. Understanding the way coupling is produced, and knowing methods to isolate coupled circuitry, and

how to apply every method, is then mandatory knowledge for every IC designer. *Analysis and Solutions for Switching Noise Coupling in Mixed-Signal ICs* is an in-depth look at coupling through the common silicon substrate, and noise at the power supply lines. It explains the elementary knowledge needed to understand these phenomena and presents a review of previous works and new research results. The aim is to provide an understanding of the reasons for these particular ways of coupling, review and suggest solutions to noise coupling, and provide criteria to apply noise reduction. *Analysis and Solutions for Switching Noise Coupling in Mixed-Signal ICs* is an ideal book, both as introductory material to noise-coupling problems in mixed-signal ICs, and for more advanced designers facing this problem. Most textbooks explain quantum mechanics as a story where each step follows naturally from the one preceding it. However, the development of quantum mechanics was exactly the opposite. It was a zigzag route, full of personal disputes where scientists were forced to abandon well-established classical concepts and to explore new and imaginative pathways. Some of the explored routes were successful in providing new mathematical formalisms capable of predicting experiments at the atomic scale. However, even such successful routes were painful enough, so that relevant scientists like Albert Einstein and Erwin Schrödinger decided not to support them. In this book, the authors demonstrate the huge practical utility of another of these routes in explaining quantum phenomena in many different research fields. Bohmian mechanics, the formulation of the quantum theory pioneered by Louis de Broglie and David Bohm, offers an alternative mathematical formulation of quantum phenomena in terms of quantum trajectories. Novel computational tools to explore physical scenarios that are currently computationally inaccessible, such as many-particle solutions of the Schrödinger equation, can be developed from it. A comprehensive evaluation of Fi-Wi, enabling readers to design links using channel estimation and equalization algorithms. This book provides a detailed study of radio over fiber (ROF)-based wireless communication systems, otherwise called fiberwireless (Fi-Wi) systems. This is an emerging hot topic where the abundant bandwidth of optical fiber is directly combined with the flexibility and mobility of wireless networks to provide broadband connectivity. Its application is increasing because of the growing demand for broadband wireless services. In such a system the transmission of the radio signals over a fiber is an important task. This book provides substantial material on the radio over fiber part of the complete fiberwireless system, including new research results on the compensation methods. The early chapters provide fundamental knowledge required for a non-expert engineering professional as well as senior/graduate level students to learn this topic from scratch. The latter part of the book covers advanced topics useful for researchers and senior students. Therefore, this book provides a comprehensive understanding of the system for readers who will gain

enough knowledge to design Fi-Wi links of their own by learning how to develop Fi-Wi channel estimation and equalization algorithms. This concept is completely novel in current literature and has been patented by the author. Readers are expected to have a basic understanding of fiber optics and wireless communications to easily follow the book and to appreciate the concepts. Basics of the Fi-Wi system and signal processing approaches are clearly explained. It covers a multidisciplinary topic and acts as a bridge between optical and wireless communication domains. In the increasingly demanding telecommunications profession, engineers are expected to have knowledge in both optical and wireless communications and expected to design combined/hybrid systems. Hence, the book is written in such a way that both optical and wireless professionals will be able to easily understand and perceive the concepts. It follows a logical process from basic principles through advanced topics, providing a wide range of interest for researchers, practicing engineers, students, and those required to build such networks. It explains detailed system design concepts and the limitations and advantages in each configuration, appealing to design engineers, and largely avoiding system specifics. It demonstrates the author's exclusive patent, showing how to develop baseband signal processing algorithms for Fi-Wi systems, which is a key requirement for the successful deployment of Fi-Wi systems. The book contains tables, numerical examples and case studies, facilitating a good quantitative understanding of the topic. This book constitutes the refereed proceedings of the 21st International Conference on Advanced Information Systems Engineering, CAiSE 2009, held in Amsterdam, The Netherlands, on June 8-12, 2009. The 36 papers presented in this book together with 6 keynote papers were carefully reviewed and selected from 230 submissions. The topics covered are model driven engineering, conceptual modeling, quality and data integration, goal-oriented requirements engineering, requirements and architecture, service orientation, Web service orchestration, value-driven modeling, workflow, business process modeling, and requirements engineering. This book gives the reader an insight into the state of the art in the field of multiobjective (linear, nonlinear and combinatorial) programming, goal programming and multiobjective metaheuristics. The 26 papers describe all relevant trends in this field of research. They cover a wide range of topics ranging from theoretical investigations to algorithms, dealing with uncertainty, and applications to real world problems such as engineering design, water distribution systems and portfolio selection. The book is based on the papers of the seventh international conference on multiple objective programming and goal programming (MOPGP06). This book deals with the management and valuation of energy storage in electric power grids, highlighting the interest of storage systems in grid applications and developing management methodologies based on artificial intelligence tools. The authors highlight the importance of storing electrical energy, in the context of sustainable development, in "smart cities" and "smart

transportation", and discuss multiple services that storing electrical energy can bring. Methodological tools are provided to build an energy management system storage following a generic approach. These tools are based on causal formalisms, artificial intelligence and explicit optimization techniques and are presented throughout the book in connection with concrete case studies.

CAiSE 2008 was the 20th in the series of International Conferences on Advanced Information System Engineering. This edition continued the success of previous conferences, a success largely due to that fact that, since its first edition, this series has evolved in parallel with the evolution of the importance of information systems in economic development. CAiSE has been able to follow, and often to anticipate, important changes that have occurred since 1978 when the first CAiSE conference was organized by Arne Sølberg and Janis Bubenko. In all these years, modern businesses and IT systems have been facing an ever more complex environment characterized by openness, variety and change. Furthermore, enterprises are experiencing ever more variety in their business in many dimensions. In the same way, the explosion of information technologies is overwhelming with a multitude of languages, platforms, devices, standards and products. Thus enterprises need to manage an environment to monitor the interplay of changes in the business processes, in information technologies, and at the ontological level, in order to achieve a sustainable development of their information systems. Enterprises must enter the era of sustainable information systems to face the important developmental challenges. During all these years, CAiSE researchers have been challenged by all these changes, and the CAiSE conferences provide a forum for presenting and debating important scientific results. In fact, CAiSE is positioned at the core of these tumultuous processes, hosting new emerging ideas, fostering innovative processes of design and evaluation, developing new information technologies adapted to information systems, creating new kinds of models, but always being subject to rigorous scientific selection.

Orthogonal Waveforms and Filter Banks for Future Communication Systems provides an up-to-date account of orthogonal filter bank-based multicarrier (FBMC) systems and their applications in modern and future communications, highlighting the crucial role that advanced multicarrier waveforms play. It is an up-to-date overview of the theory, algorithms, design and applications of FBMC systems at both the link- and system levels that demonstrates the various gains offered by FBMC over existing transmission schemes via both simulation and test bed experiments. Readers will learn the requirements and challenges of advanced waveform design for future communication systems, existing FBMC approaches, application areas, and their implementation. In addition, the state-of-the-art in PHY- and MAC-layer solutions based on FBMC techniques, including theoretical, algorithmic and implementation aspects are explored. Presents a unique and up-to-date source for signal

processing/communications researchers and practitioners Presents a homogeneous, comprehensive presentation of the subject Covers offset-QAM based FBMC (FBMC/OQAM) and its variants, including its history, signal processing interest and potential for maximum spectral efficiency, among other features This book is devoted to Multiobjective Optimization Design (MOOD) procedures for controller tuning applications, by means of Evolutionary Multiobjective Optimization (EMO). It presents developments in tools, procedures and guidelines to facilitate this process, covering the three fundamental steps in the procedure: problem definition, optimization and decision-making. The book is divided into four parts. The first part, Fundamentals, focuses on the necessary theoretical background and provides specific tools for practitioners. The second part, Basics, examines a range of basic examples regarding the MOOD procedure for controller tuning, while the third part, Benchmarking, demonstrates how the MOOD procedure can be employed in several control engineering problems. The fourth part, Applications, is dedicated to implementing the MOOD procedure for controller tuning in real processes. This book proposes systemic design methodologies applied to electrical energy systems, in particular analysis and system management, modeling and sizing tools. It includes 8 chapters: after an introduction to the systemic approach (history, basics & fundamental issues, index terms) for designing energy systems, this book presents two different graphical formalisms especially dedicated to multidisciplinary devices modeling, synthesis and analysis: Bond Graph and COG/EMR. Other systemic analysis approaches for quality and stability of systems, as well as for safety and robustness analysis tools are also proposed. One chapter is dedicated to energy management and another is focused on Monte Carlo algorithms for electrical systems and networks sizing. The aim of this book is to summarize design methodologies based in particular on a systemic viewpoint, by considering the system as a whole. These methods and tools are proposed by the most important French research laboratories, which have many scientific partnerships with other European and international research institutions. Scientists and engineers in the field of electrical engineering, especially teachers/researchers because of the focus on methodological issues, will find this book extremely useful, as will PhD and Masters students in this field. This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-

IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE). This book is devoted to reporting innovative and significant progress in fuzzy system engineering. Given the maturation of fuzzy logic, this book is dedicated to exploring the recent breakthroughs in fuzziness and soft computing in favour of intelligent system engineering. This monograph presents novel developments of the fuzzy theory as well as interesting applications of the fuzzy logic exploiting the theory to engineer intelligent systems. Systems designers have learned that many agents co-operating within the system can solve very complex problems with a minimal design effort. In general, multi-agent systems that use swarm intelligence are said to be swarm intelligent systems. Today, these are mostly used as search engines and optimization tools. This volume reviews innovative methodologies of swarm intelligence, outlines the foundations of engineering swarm intelligent systems and applications, and relates experiences using the particle swarm optimisation. This book constitutes the proceedings of the 16th International Conference on Research Challenges in Information Sciences, RCIS 2022, which took place in Barcelona, Spain, during May 17–20, 2022. It focused on the special theme "Ethics and Trustworthiness in Information Science". The scope of RCIS is summarized by the thematic areas of information systems and their engineering; user-oriented approaches; data and information management; business process management; domain-specific information systems engineering; data science; information infrastructures, and reflective research and practice. The 35 full papers presented in this volume were carefully reviewed and selected from a total 100 submissions. The 18 Forum papers are based on 11 Forum submissions, from which 5 were selected, and the remaining 13 were transferred from the regular submissions. The 6 Doctoral Consortium papers were selected from 10 submissions to the consortium. The contributions were organized in topical sections named: Data Science and Data Management; Information Search and Analysis; Business Process Management; Business Process Mining; Digital Transformation and Smart Life; Conceptual Modelling and Ontologies; Requirements Engineering; Model-Driven Engineering; Machine Learning Applications. In addition, two-page summaries of the tutorials can be found in the back matter.

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