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Fifty Challenging Problems in Probability with Solutions CRC Press

This textbook provides a comprehensive and didactic introduction from the basics to the current state of the art in the field of EEG/MEG source reconstruction. Reconstructing the generators or sources of electroencephalographic and magnetoencephalographic (EEG/MEG) signals is an important problem in basic neuroscience as well as clinical research and practice. Over the past few decades, an entire theory, together with a whole collection of algorithms and techniques, has developed. In this textbook, the authors provide a unified perspective on a broad range of EEG/MEG source reconstruction methods, with particular emphasis on their respective assumptions about sources, data, head tissues, and sensor properties. An introductory chapter highlights the concept of brain imaging and the particular importance of the neuroelectromagnetic inverse problem. This is followed by an in-depth discussion of neural information processing and brain signal generation and an introduction to the practice of data acquisition. Next, the relevant mathematical models for the sources of EEG and MEG are discussed in detail, followed by the neuroelectromagnetic forward problem, that is, the prediction of EEG or MEG signals from those source models, using biophysical descriptions of the head tissues and the sensors. The main part of this textbook is dedicated to the source reconstruction methods. The authors present a theoretical framework of the neuroelectromagnetic inverse problem, centered on Bayes' theorem, which then serves as the basis for a detailed description of a large variety of techniques, including dipole fit methods, distributed source reconstruction, spatial filters, and dynamic source reconstruction methods. The final two chapters address the important topic of assessment, including

verification and validation of source reconstruction methods, and their actual application to real-world scientific and clinical questions. This book is intended as basic reading for anybody who is engaged with EEG/MEG source reconstruction, be it as a method developer or as a user, including advanced undergraduate students, PhD students, and postdocs in neuroscience, biomedical engineering, and related fields.

Business Processes: Operational Solutions for SAP Implementation Springer Science & Business Media

"This book is about Enterprise Resource Planning (ERP) systems implementation, focusing on business operations/processes and information systems to support business operations/processes"--Provided by publisher.

Comdex Tally 9 Course Kit (With Cd) S. Chand Publishing

Collaborative product assembly design and assembly planning presents several newly-developed methodologies and applications for collaborative assembly design and assembly planning, two important steps during the product development life cycle. These benefits include effective and rapid assembly design and assembly planning, thereby reducing the development cost and helping manufacturers enhance profit. With increased development in computer technologies and the Internet, the traditional assembly design and assembly planning have evolved around collaborative assembly design and assembly planning to speed up the product development process. Research in this area has attracted much attention in the past decade. Based on research work in the past few years, this book will present several newly-developed methodologies and applications for collaborative assembly design and assembly planning to improve the efficiency of product development in a collaborative design environment. Provides practical and realistic solutions to engineering problems Methodologies introduced will lead to future commercialisation of systems Detailed step-by-step case study examples will illustrate the methodologies and be discussed thoroughly

Financial Reporting With Problems & Solutions, Accounting Standards & Guidance Notes (For CA-Final) Springer Science & Business Media

The leading guide to group-based cognitive-behavioral therapy (CBT) has now been significantly revised with 70% new material, reflecting over 15 years of research and clinical advances. Too often, CBT training resources treat groups as simply an extension of individual therapy. Filling an important need, this text helps students and practitioners build essential skills for leveraging group process to optimize outcomes. Featuring sample dialogues, clinical pointers, and troubleshooting tips, the book provides practical answers to group leaders' most pressing questions. Effective protocols for treating specific disorders are presented, with a focus on CBT techniques and group process factors unique to each type of group. New to This Edition *Chapters on inpatient groups and mindfulness-based CBT. *Chapters on additional disorders: posttraumatic stress disorder and borderline personality disorder. *Fully rewritten chapters on anxiety disorders, substance use disorders, and psychosis. *Discussions of timely topics, such as conducting virtual groups and the growth of transdiagnostic approaches. *Even more clinician friendly; streamlined chapters highlight "what to do when."

Innovation, Communication and Engineering Springer Nature

Formal Techniques for Networked and Distributed Systems - FORTE 2006Springer Science & Business Media

Innovative Technologies and Learning Formal Techniques for Networked and Distributed

Systems - FORTE 2006
We take great pleasure in presenting to the readers the second throughly revised edition of the book after a number of reprints.The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised,revised and rewritten.

Facilities Design Pearson Education
This book aims to provide a general overview of heuristic search, to present the basic steps of the most popular heuristics, and to stress their hidden difficulties as well as their opportunities. It provides a comprehensive understanding of Heuristic search, the applications of which are now widely used in a variety of industries including engineering, finance, sport, management and medicine. It intends to aid researchers and practitioners in solving complex combinatorial and global optimisation problems, and spark interest in this exciting decision science-based subject. It will provide the reader with challenging and lively methodologies through which they will be able to design and analyse their own techniques

Designing for Cisco Internetwork Solutions (DESGN) (Authorized CCDA Self-Study Guide) (Exam 640-863) Springer Nature
This book constitutes the refereed proceedings of the 4th International Conference on Innovative Technologies and Learning, ICITL 2021, held in November/December 2021. Due to COVID-19 pandemic the conference was held virtually. The 59 full papers presented together with 2 short papers were carefully reviewed and selected from 110 submissions. The papers are organized in the following topical sections: Artificial Intelligence in Education; Augmented, Virtual and Mixed Reality in Education; Computational Thinking in Education; Design Framework and Model for Innovative learning; Education Practice Issues and Trends; Educational Gamification and Game-based Learning; Innovative Technologies and Pedagogies Enhanced Learning; Multimedia Technology Enhanced Learning; Online Course and Web-Based Environment; and Science, Technology, Engineering, Arts and Design, and Mathematics.

Supply Chain Scheduling IGI Global
Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. Exploring Critical Approaches of Evolutionary Computation is a vital scholarly publication that explores the latest developments, methods, approaches, and applications of evolutionary models in a variety of fields. It also emphasizes evolutionary models of computation such as genetic algorithms, evolutionary strategies, classifier systems, evolutionary programming, genetic programming, and related fields such as swarm intelligence and other evolutionary computation techniques. Highlighting a range of pertinent topics such as neural networks, data mining, and data analytics, this book is designed for IT developers, IT theorists, computer engineers, researchers, practitioners, and upper-level students seeking current research on enhanced information exchange methods and practical aspects of computational systems.

Cognitive-Behavioral Therapy in Groups Dreamtech Press

Soft computing and nature-inspired computing both play a significant role in developing a better understanding to machine learning. When studied together, they can offer new perspectives on the learning process of machines. The Handbook of Research on Soft Computing and Nature-Inspired Algorithms is an essential source for the latest scholarly research on applications of nature-inspired computing and soft computational systems. Featuring comprehensive coverage on a range of topics and perspectives such as swarm intelligence, speech recognition, and electromagnetic problem solving, this publication is ideally designed for students, researchers, scholars, professionals, and practitioners seeking current research on the advanced workings of intelligence in computing systems.

Mobile Speech and Advanced Natural Language Solutions Courier Corporation

Unit 1: Introduction Unit 2: Valuation Unit 3: Corporate Resructuring Unit 4: Consolidated Financial Statements Unit 5: Employee Share-Based Payments Unit 6: Value Added Statement Unit 7: Human Resource Reporting Unit 8: Accounting And Repoting Of Financial Instruments Unit 9: Financial Reporting For Financial Institutions Appendix Ca Final Examination Paper May 2012

Operational Research and Management Science Letters Academic Press

Supply chain scheduling is a relatively new research area with less than 20 years of history. It is an intersection of two traditional areas: supply chain management and scheduling. In this book, the authors provide a comprehensive coverage of supply chain scheduling. The book covers applications, solution algorithms for solving related problems, evaluation of supply chain conflicts, and models for encouraging cooperation between decision makers. Supply chain scheduling studies detailed scheduling issues within supply chains, as motivated by a variety of applications in the real world. Topics covered by the book include: Coordinated decision making in centralized supply chains, including integrated production and distribution scheduling, joint scheduling and product pricing, and coordinated subcontracting and scheduling. Coordination and competition issues in decentralized supply chains, including conflict and cooperation within scheduling decisions made by different parties in supply chains, and both cooperative and non-cooperative supply chain scheduling games. The book describes a variety of representative problems within each of these topics. The authors define these problems mathematically, describe corresponding applications, and introduce solution methods for solving each problem to improve supply chain performance.

Advanced Problems in Mathematics CRC Press

The author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques.Accordingly,a large number of comprehensive solved examples,taken from a variety of fields,have been added in every chapter and they are followed by a set of unsolved problems with answers(and hints wherever required)through which readers can test their understanding of the subject

matter.The book,in its present form,contains around 650,examples,1,280 illustrative diagrams.

Heuristic Search Springer Nature

The combination of faster, more advanced computers and more quantitatively oriented biomedical researchers has recently yielded new and more precise methods for the analysis of biomedical data. These better analyses have enhanced the conclusions that can be drawn from biomedical data, and they have changed the way that experiments are designed and performed. This volume, along with previous and forthcoming 'Computer Methods' volumes for the Methods in Enzymology serial, aims to inform biomedical researchers about recent applications of modern data analysis and simulation methods as applied to biomedical research.

Introduction to Operations Research S. Chand Publishing

Extremal Optimization: Fundamentals, Algorithms, and Applications introduces state-of-the-art extremal optimization (EO) and modified EO (MEO) solutions from fundamentals, methodologies, and algorithms to applications based on numerous classic publications and the authors' recent original research results. It promotes the movement of EO from academic study to practical applications. The book covers four aspects, beginning with a general review of real-world optimization problems and popular solutions with a focus on computational complexity, such as "NP-hard" and the "phase transitions" occurring on the search landscape. Next, it introduces computational extremal dynamics and its applications in EO from principles, mechanisms, and algorithms to the experiments on some benchmark problems such as TSP, spin glass, Max-SAT (maximum satisfiability), and graph partition. It then presents studies on the fundamental features of search dynamics and mechanisms in EO with a focus on self-organized optimization, evolutionary probability distribution, and structure features (e.g., backbones), which are based on the authors' recent research results. Finally, it discusses applications of EO and MEO in multiobjective optimization, systems modeling, intelligent control, and production scheduling. The authors present the advanced features of EO in solving NP-hard problems through problem formulation, algorithms, and simulation studies on popular benchmarks and industrial applications. They also focus on the development of MEO and its applications. This book can be used as a reference for graduate students, research developers, and practical engineers who work on developing optimization solutions for those complex systems with hardness that cannot be solved with mathematical optimization or other computational intelligence, such as evolutionary computations.

Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application IGI Global

The first notable feature of this book is its innovation: Computational intelligence (CI), a fast evolving area, is currently attracting lots of researchers' attention in dealing with many complex problems. At present, there are quite a lot competing books existing in the market. Nevertheless, the present book is markedly different from the existing books in that it presents new paradigms of CI that have rarely mentioned before, as opposed to the traditional CI techniques or methodologies employed in other books. During the past decade, a number of new CI algorithms are proposed. Unfortunately, they spread in a number of unrelated publishing directions which may hamper the use of such published resources. These provide us with motivation to analyze the existing research for categorizing and synthesizing it in a meaningful manner. The mission of this book is really important since those algorithms are going to be a new revolution in computer science. We hope it will stimulate the readers to make novel contributions or even start a new paradigm based on nature phenomena. Although

structured as a textbook, the book's straightforward, self-contained style will also appeal to a wide audience of professionals, researchers and independent learners. We believe that the book will be instrumental in initiating an integrated approach to complex problems by allowing cross-fertilization of design principles from different design philosophies. The second feature of this book is its comprehensiveness: Through an extensive literature research, there are 134 innovative CI algorithms covered in this book.

Nature-Inspired Computing Springer

This book provides a broad coverage of the recent advances in robustness analysis in decision aiding, optimization, and analytics. It offers a comprehensive illustration of the challenges that robustness raises in different operations research and management science (OR/MS) contexts and the methodologies proposed from multiple perspectives. Aside from covering recent methodological developments, this volume also features applications of robust techniques in engineering and management, thus illustrating the robustness issues raised in real-world problems and their resolution within advances in OR/MS methodologies. Robustness analysis seeks to address issues by promoting solutions, which are acceptable under a wide set of hypotheses, assumptions and estimates. In OR/MS, robustness has been mostly viewed in the context of optimization under uncertainty. Several scholars, however, have emphasized the multiple facets of robustness analysis in a broader OR/MS perspective that goes beyond the traditional framework, seeking to cover the decision support nature of OR/MS methodologies as well. As new challenges emerge in a “big-data'” era, where the information volume, speed of flow, and complexity increase rapidly, and analytics play a fundamental role for strategic and operational decision-making at a global level, robustness issues such as the ones covered in this book become more relevant than ever for providing sound decision support through more powerful analytic tools.

Extremal Optimization Springer

Economic Time Series: Modeling and Seasonality is a focused resource on analysis of economic time series as pertains to modeling and seasonality, presenting cutting-edge research that would otherwise be scattered throughout diverse peer-reviewed journals. This compilation of 21 chapters showcases the cross-fertilization between the fields of time series modeling and seasonal adjustment, as is reflected both in the contents of the chapters and in their authorship, with contributors coming from academia and government statistical agencies. For easier perusal and absorption, the contents have been grouped into seven topical sections: Section I deals with periodic modeling of time series, introducing, applying, and comparing various seasonally periodic models Section II examines the estimation of time series components when models for series are misspecified in some sense, and the broader implications this has for seasonal adjustment and business cycle estimation Section III examines the quantification of error in X-11 seasonal adjustments, with comparisons to error in model-based seasonal adjustments Section IV discusses some practical problems that arise in seasonal adjustment: developing asymmetric trend-cycle filters, dealing with both temporal and contemporaneous benchmark constraints, detecting trading-day effects in monthly and quarterly time series, and using diagnostics in conjunction with model-based seasonal adjustment Section V explores outlier detection and the modeling of time series containing extreme values, developing new procedures and extending previous work Section VI examines some alternative models and inference

procedures for analysis of seasonal economic time series Section VII deals with aspects of modeling, estimation, and forecasting for nonseasonal economic time series By presenting new methodological developments as well as pertinent empirical analyses and reviews of established methods, the book provides much that is stimulating and practically useful for the serious researcher and analyst of economic time series.

Robustness Analysis in Decision Aiding, Optimization, and Analytics

DIANE Publishing

This open access book deals with a rich variety of taxis-type cross-diffusive equations. Particularly, it intends to show the key role played by quasi-energy inequality in the derivation of some necessary a priori estimates. This book addresses applied mathematics and all researchers interested in mathematical development of reaction-diffusion theory and its application and can be a basis for a graduate course in applied mathematics.

Chemical Solution Deposition of Functional Oxide Thin Films Springer Nature

This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems (ICCIS 2020), organized jointly by Birla Institute of Applied Sciences, Uttarakhand, and Soft Computing Research Society during 26–27 December 2020. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source.