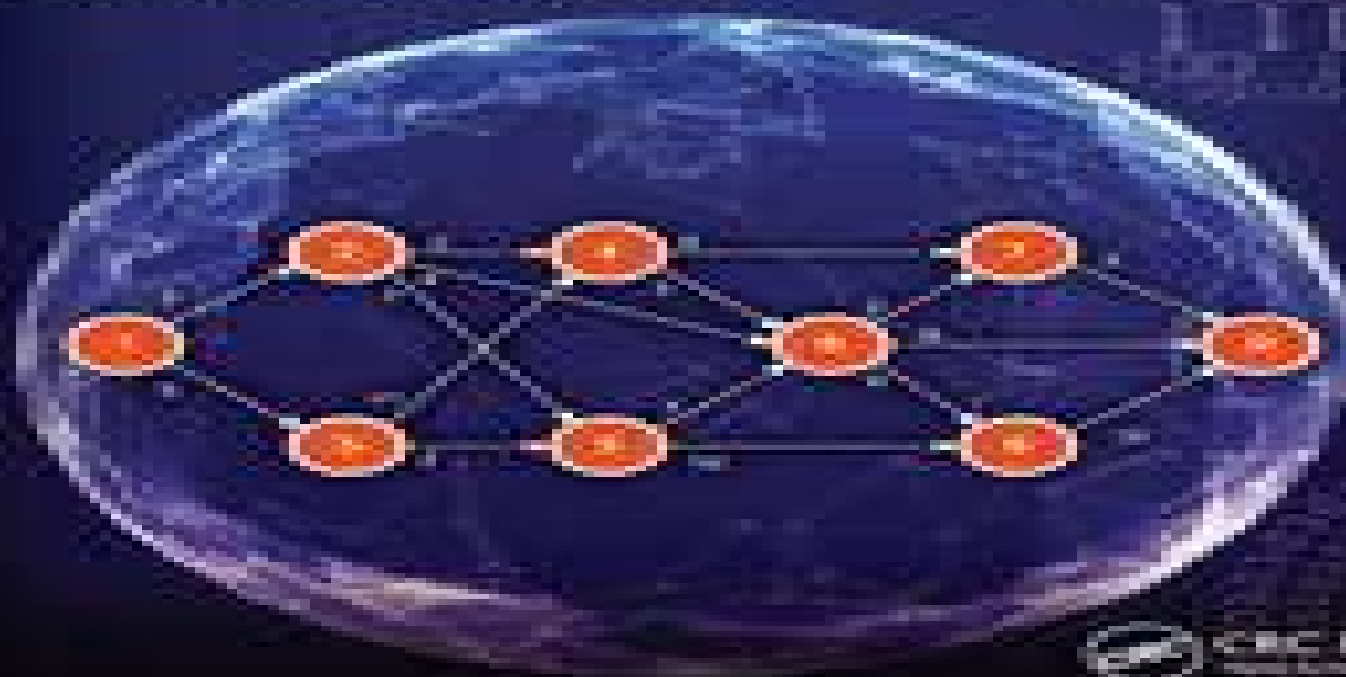


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Advanced Information Networking and Applications Leonard Barolli, Isaac Woungang, Tomoya Enokido, 2021-04-23 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book *Advanced Information Networking and Applications* is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

Intelligent Computational Optimization in Engineering Mario Köppen, Gerald Schaefer, Ajith Abraham, 2011-07-15 We often come across computational optimization virtually in all branches of engineering and industry Many engineering problems involve heuristic search and optimization and once discretized may become combinatorial in nature which gives rise to certain difficulties in terms of solution procedure Some of these problems have enormous search spaces are NP hard and hence require heuristic solution techniques Another difficulty is the lack of ability of classical solution techniques to determine appropriate optima of non convex problems Under these conditions recent advances in computational optimization techniques have been shown to be advantageous and successful compared to classical approaches This Volume presents some of the latest developments with a focus on the design of algorithms for computational optimization and their applications in practice Through the chapters of this book researchers and practitioners share their experience and newest methodologies with regard to intelligent optimization and provide various case studies of the application of intelligent optimization techniques in real world applications This book can serve as an excellent reference for researchers and graduate students in computer science various engineering disciplines and the industry

Online Optimization of Large Scale Systems Martin Grötschel, Sven O. Krumke, Joerg Rambau, 2013-03-14 In its thousands of years of history mathematics has made an extraordinary career It started from rules for bookkeeping and

computation of areas to become the language of science Its potential for decision support was fully recognized in the twentieth century only vitally aided by the evolution of computing and communication technology Mathematical optimization in particular has developed into a powerful machinery to help planners Whether costs are to be reduced profits to be maximized or scarce resources to be used wisely optimization methods are available to guide decision making Optimization is particularly strong if precise models of real phenomena and data of high quality are at hand often yielding reliable automated control and decision procedures But what if the models are soft and not all data are around Can mathematics help as well This book addresses such issues e g problems of the following type An elevator cannot know all transportation requests in advance In which order should it serve the passengers Wing profiles of aircrafts influence the fuel consumption Is it possible to continuously adapt the shape of a wing during the flight under rapidly changing conditions Robots are designed to accomplish specific tasks as efficiently as possible But what if a robot navigates in an unknown environment Energy demand changes quickly and is not easily predictable over time Some types of power plants can only react slowly

Application of Advanced Optimization Techniques for Healthcare Analytics Mohamed Abdel-Basset,Ripon K. Chakraborty,Reda Mohamed,2023-04-11 Application of Advanced Optimization Techniques for Healthcare Analytics 1st Edition is an excellent compilation of current and advanced optimization techniques which can readily be applied to solve different hospital management problems The healthcare system is currently a topic of significant investigation to make life easier for those who are disabled old or sick as well as for young children The emphasis of the healthcare system has evolved throughout time due to several emerging beneficial technologies such as personal digital assistants PDAs data mining the internet of things metaheuristics fog computing and cloud computing Metaheuristics are strong technology for tackling several optimization problems in various fields especially healthcare systems The primary advantage of metaheuristic algorithms is their ability to find a better solution to a healthcare problem and their ability to consume as little time as possible In addition metaheuristics are more flexible compared to several other optimization techniques These algorithms are not related to a specific optimization problem but could be applied to any optimization problem by making some small adaptations to become suitable to tackle it The successful outcome of this book will enable a decision maker or practitioner to pick a suitable optimization approach when making decisions to schedule patients under crowding environments with minimized human errors

Control and Dynamic Systems V30: Advances in Algorithms and Computational Techniques in Dynamic System Control Part 3 of 3 C.T. Leonides,2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 30 Advances in Algorithms and Computational Techniques in Dynamic Systems Control Part 3 of 3 discusses developments in algorithms and computational techniques for control and dynamic systems This volume begins with the issue of decision making or optimal control in the natural environment It then discusses large scale systems composed of multiple sensors algorithms for systems with multiplicative noise stochastic differential games Markovian

targets low cost microcomputer and true digital control systems and algorithms for the design of teleoperated systems This book is an important reference for practitioners in the field who want a comprehensive source of techniques with significant applied implications The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It explores the emerging fields of sensors nanotechnologies and biological effects Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world s foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it will continue to be a platform to launch the next wave of advancements The Handbook s latest incarnation features a

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