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Probability with Applications in Engineering, Science, and Technology Matthew A. Carlton 2017-03-30 This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for

course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both in

students

Risks and Security of Internet and Systems

Akka Zemmari 2019-01-24 This book constitutes the revised selected papers from the 13th International Conference on Risks and Security of Internet and Systems, CRiSIS 2018, held in Arcachon, France, in October 2018. The 12 full papers and 6 short papers presented in this volume were carefully reviewed and selected from 34 submissions. They cover diverse research themes that range from classic topics, such as vulnerability analysis and classification; apps security; access control and filtering; cloud security; cyber-insurance and cyber threat intelligence; human-centric security and trust; and risk analysis.

Medicinal and Aromatic Plants of the World

Ákos Máthé 2015-09-30 Medicinal and aromatic plants (MAPs) have accompanied mankind from its very early beginnings. Their utilization has co-evolved with homo sapiens itself bringing about a profound increase in our scientific knowledge of these species enabling them to be used in many facets of our life (e.g. pharmaceutical products, feed- and food additives, cosmetics, etc.). Remarkably, despite the new renaissance of MAPs usage, ca. 80 % of the world's population is relying on natural substances of plant origin, with most of these botanicals sourced from the wild state. This first volume and ultimately the series, provides readers with a wealth of information on medicinal and aromatic plants.

Marketing Strategies of the Horticultural Production Chain

Marco A. Palma 2021 This book consists of a series of articles that present novel trends in horticulture marketing and some of the key supply chain management issues for the horticulture industry across a wide range of geographical

regions.

Compartment Syndrome Cyril Mauffrey 2019-09-02 Compartment syndrome is a complex physiologic process with significant potential harm, and though an important clinical problem, the basic science and research surrounding this entity remains poorly understood. This unique open access book fills the gap in the knowledge of compartment syndrome, re-evaluating the current state of the art on this condition. The current clinical diagnostic criteria are presented, as well as the multiple dilemmas facing the surgeon. Pathophysiology, ischemic thresholds and pressure management techniques and limitations are discussed in detail. The main surgical management strategy, fasciotomy, is then described for both the upper and lower extremities, along with wound care. Compartment syndrome due to patient positioning, in children and polytrauma patients, and unusual presentations are likewise covered. Novel diagnosis and prevention strategies, as well as common misconceptions and legal ramifications stemming from compartment syndrome, round out the presentation. Unique and timely, Compartment Syndrome: A Guide to Diagnosis and Management will be indispensable for orthopedic and trauma surgeons confronted with this common yet challenging medical condition.

Compartmental Syndromes

Frederick A. Matsen 1980 Applied Computer Vision and Image Processing Brijesh Iyer 2020-07-28 This book gathers high-quality research papers presented at the International Conference on Computing in Engineering and Technology (ICCET 2020) [formerly ICCASP]. A flagship conference on engineering and emerging next-generation technologies, it was jointly organized by Dr.

Babasaheb Ambedkar Technological University and MGMs College of Engineering, Nanded, India on 9–11 January 2020. Focusing on applied computer vision and image processing, this proceedings volume includes papers on image processing, computer vision, pattern recognition, and DSP/DIP applications in healthcare systems.

Statistics for Data Science and Policy Analysis Azizur Rahman 2020-03-31 This book brings together the best contributions of the Applied Statistics and Policy Analysis Conference 2019. Written by leading international experts in the field of statistics, data science and policy evaluation. This book explores the theme of effective policy methods through the use of big data, accurate estimates and modern computing tools and statistical modelling.

Public-Private Partnerships for Sustainable Development Axel Marx 2019-04-18 Voluntary sustainability standards (VSS) and other private governance instruments (e.g., Fair Trade, Forest Stewardship Council, Fair Wear Foundation, GLOBALGAP) are increasingly regulating global production processes and economic activities. VSS verify the compliance of products or production processes with sustainability standards. The importance of voluntary sustainability standards is now widely recognized. After being operational for more than two decades, they have established themselves as private governance instruments. This recognition is also exemplified by their integration in public regulatory approaches. Governments and international organizations are partnering with voluntary sustainability standards to pursue sustainable development policies. We witness the integration of VSS in the regulatory app

and national governments in countries around the world, the integration of VSS in trade policies, the emergence of public–private initiatives to govern global supply chains, and the inclusion of private initiatives in experimentalist governance regimes. This Special Issue seeks to bring together research on the interface between private and public governance. We welcome contributions which analyze specific case studies on the emergence and development of these private–public interactions, the design of public–private governance, the effectiveness of these governance arrangements, and critical perspectives on the possibilities and limitations of such public–private forms of governance. We welcome multi-disciplinary perspectives including contributions from economics, political science, law, sociology, geography, and anthropology. Papers selected for this Special Issue are subject to a

peer review procedure with the aim of rapid and wide dissemination of research results, developments, and applications. Algorithms for Scheduling Problems FrankWerner 2018-08-24 This book is a printed edition of the Special Issue " Algorithms for Scheduling Problems" that was published in Algorithms The Whispered Watchword Margaret Sutton 2008-04-17 When Judy's cat, Blackberry, disappears and the life of a senator is threatened, Judy and Peter uncover an organized crime ring in Washington, D.C. Steel Roses Rena Freefall 2019-11-07 When the chance to run arrives, Beldon doesn't think twice about escaping into the shadows of an enchanted castle locked in an eternal winter. He just wants to bury a secret. But the castle is a cold, cruel place and his host is less than welcoming. The sparks that fly between them are icy and aggressive at first

tension building until one night it almost costs Beldon his life. Then things change. Beldon's attention turns to the shadowy Beast and the mystery that surrounds him. There is a curse to be broken after all and Beldon promised to help find a mysterious figure known as Beauty. However, Beldon did not expect his secret to resurface within this frozen castle and as such he is forced to confront himself and answer one question. As he and The Beast grow closer, does he want this Beauty found?~~~~ The original draft for the community who wanted a physical copy~

NTA NET PAPER 1 Narayan Changder 2017-08-31 RED EYE in CBSE NET. The whole content of the UGC NET Guide Book is available freely to all and are revised periodically to reflect the new content and new development in the subject. I. Teaching Aptitude Teaching : Nature, objectives, characteristics and basic requirements; Learner's characteristics; Factors affecting teaching; Methods of teaching; Teaching aids; Evaluation systems. II. Research Aptitude Research : Meaning, characteristics and types; Steps of research; Methods of research; Research Ethics; Paper, article, workshop, seminar, conference and symposium; Thesis writing: its characteristics and format. . III. Reading Comprehension A passage to be set with questions to be answered. IV. Communication Communication : Nature, characteristics, types, barriers and effective classroom communication. V. Reasoning (Including Mathematical) Number series; letter series; codes; > Relationships; classification. VI. Logical Reasoning Understanding the structure of arguments; Evaluating and distinguishing deductive and inductive reasoning; Verbal analogies : Word analogy — Applied

analogy; Verbal classification. Reasoning Logical Diagrams : Simple diagrammatic relationship, multidiagrammatic relationship; Venn diagram; Analytical Reasoning. VII. Data Interpretation Sources, acquisition and interpretation of datag. 'P Quantitative and qualitative data; > Graphical representation and mapping of data. VIII. Information and Communicating Technology (ICT) ICT : meaning, advantages, disadvantages and uses; > General abbreviations and terminology; > Basics of internet and e-mailing. IX. People and Environment People and environment interaction;Sources of pollution;Pollutants and their impact on human life, exploitation of natural and energy resources; Natural hazards and mitigation . X. Higher Education System : Governance Polity And Administration; Structure of the institutions for higher learning and research in India; formal and distance education; professional/technical and general education; value education: governance, polity and administration; concept, institutions and their interactions. Visit https://www.gatecseit.in/ for more questions.

Vegetable Fiber Composites and their Technological Applications

Mohammad Jawaid 2021-08-18 This book explores vegetable fiber composite as an eco-friendly, biodegradable, and sustainable material that has many potential industrial applications. The use of vegetable fiber composite supports the sustainable development goals (SDGs) to utilize more sustainable and greener composite materials, which are also easy to handle and locally easily available with economical production costs. This book presents various types of vegetable fiber composite and its processing methods and treatments to obtain desirable properties for certain applications.

The book caters to researchers and students who are working in the field of bio-composites and green materials.

MathLinks 7 Glen Holmes 2007

Jack McAfghan Kate McGahan 2015-04-02 An expert communicator, Jack McAfghan writes the memoirs of his four-legged life as a mixed-breed Afghan Hound. From obedience and agility training to hospice work, Jack and his master learn their lessons side by side, inevitably applying what they have learned as their own lives unfold. It is a love story that can be used as an informal study guide for those who are in the process of training a dog, learning to love, or grieving over the loss of a friend.Jack presents with a wise, open and informed mind. He speaks firsthand about the psychological aspects of canine behavior as he opens the reader's mind to the possibilities that exist in life and after death. He reminds us that the way we think can change the course of our lives.This story will touch everyone who has ever loved. It matters not if they have four legs or two. Jack leads us to a higher love as he expands our tolerance and compassion for all of humanity. He extends himself to every creature of the earth, every human on the planet, every spirit in the universe and most of all, to the bona fide Master over all.

Image Processing Using FPGAs Donald Bailey 2019-06-11 This book presents a selection of papers representing current research on using field programmable gate arrays (FPGAs) for realising image processing algorithms. These papers are reprints of papers selected for a Special Issue of the Journal of Imaging on image processing using FPGAs. A diverse range of topics is covered, including parallel soft processors, memory management, image filters, segmentation,

image analysis, and image compression. Applications include traffic sign recognition for autonomous driving, cell detection for histopathology, and video compression. Collectively, they represent the current state-of-the-art on image processing using FPGAs.

Nana 12 Ai Yazawa 2008-10-01 When two twenty-year-old women with the same first name meet and become best friends despite their different personalities, they experience a world of music, fashion, sex, gossip, and all-night parties.

Information and Software Technologies Robertas Damaševičius 2018-08-28 This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies, ICIST 2018, held in Vilnius, Lithuania, in October 2018. The 48 papers presented were carefully reviewed and selected from 124 submissions.

The papers are organized in topical sections on information systems; business intelligence for information and software systems; software engineering; and information technology applications.

Biochar as Soil Amendment José María De la Rosa 2020-03-10 The role of biochar in improving soil fertility is increasingly being recognized and is leading to recommendations of biochar amendment of degraded soils. In addition, biochars offer a sustainable tool for managing organic wastes and to produce added-value products. The benefits of biochar use in agriculture and forestry can span enhanced plant productivity, an increase in soil C stocks, and a reduction of nutrient losses from soil and non-CO2 greenhouse gas emissions. Nevertheless, biochar composition and properties and, therefore, its performance as a soil amendment are highly dependent on the feedstock and

pyrolysis conditions. In addition, due to its characteristics, such as high porosity, water retention, and adsorption capacity, there are other applications for biochar that still need to be properly tested. Thus, the 16 original articles contained in this book, which were selected and evaluated for this Special Issue, provide a comprehensive overview of the biological, chemicophysical, biochemical, and environmental aspects of the application of biochar as soil amendment. Specifically, they address the applicability of biochar for nursery growth, its effects on the productivity of various food crops under contrasting conditions, biochar capacity for pesticide retention, assessment of greenhouse gas emissions, and soil carbon dynamics. I would like to thank the contributors, reviewers, and the support of the Agronomy editorial staff, whose professionalism and dedication have made this issue possible.

GRE Power Vocab The Princeton Review 2015-06-16 THE PRINCETON REVIEW GETS RESULTS! Ace the GRE verbal sections with 800+ words you need to know to excel. This eBook edition has been optimized for onscreen viewing with cross-linked quiz questions, answers, and explanations. Improving your vocabulary is one of the most important steps you can take to enhance your GRE verbal score. The Princeton Review's GRE Power Vocab is filled with useful definitions and study tips for over 800 words, along with skills for decoding unfamiliar ones. You'll also find strategies that help to liven up flashcards and boost memorization techniques. Everything You Need to Help Achieve a High Score. • 800+ of the most frequently used vocab words to ensure that you work smarter, not harder • Effective exercises and games designed to develop mnemonics and ro

Secondary definitions to help you avoid the test's tricks and traps Practice Your Way to Perfection. • Over 60 quick quizzes to help you remember what you've learned • Varied drills using antonyms, analogies, and sentence completions to assess your knowledge • A diagnostic final exam to check that you've mastered the vocabulary necessary for getting a great GRE score

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Fallocaust Quil Carter 2014-07-09 Over two hundred and thirty years ago the Fallocaust happened, killing almost everything that lived and creating what is now known as the greywastes. A dead

wasteland where cannibalism is a necessity, death your reality, and life before the radiation nothing but pictures in dog-eared magazines. Reaver is a greywaster, living in a small block controlled by a distant ruler said to have started the Fallocaust. He is a product of the savage world he was raised in and prides himself on being cold and cruel. Then someone new to his town catches his eye, someone different than everyone else. Without knowing why he starts to silently stalk him, unaware of where it will lead him.

Tribological Applications of Composite Materials

Mohamed Thariq Hameed Sultan 2020-12-14 This book covers the current advances and practices in tribological applications of composite materials under various processes, presenting the development, characterization, and morphological properties of composite materials in tribological applications. It covers a wide

range of subjects, extending from fundamental research on the tribological characteristics of various multi-phase materials to the final applications of composites in wear loaded, technical components. It brings together contributions from researchers who discusses innovative experimental approaches and analytical techniques, creating a reference with comprehensive coverage of modern research techniques and the potential application of tribological composites in biomedical, aerospace, automotive, marines and construction industries. This volume will be of interest to material science researchers working in both industry and academia

Modern Mathematical Statistics with Applications

Jay L. Devore 2021-04-29 This 3rd edition of Modern Mathematical Statistics with Applications tries to strike a balance between m

foundations and statistical practice. The book provides a clear and current exposition of statistical concepts and methodology, including many examples and exercises based on real data gleaned from publicly available sources. Here is a small but representative selection of scenarios for our examples and exercises based on information in recent articles: Use of the "Big Mac index" by the publication The Economist as a humorous way to compare product costs across nations Visualizing how the concentration of lead levels in cartridges varies for each of five brands of e-cigarettes Describing the distribution of grip size among surgeons and how it impacts their ability to use a particular brand of surgical stapler Estimating the true average odometer reading of used Porsche Boxsters listed for sale on www.cars.com Comparing head acceleration after impact when wearing a football helmet with acceleration without a helmet Investigating the relationship between body mass index and foot load while running The main focus of the book is on presenting and illustrating methods of inferential statistics used by investigators in a wide variety of disciplines, from actuarial science all the way to zoology. It begins with a chapter on descriptive statistics that immediately exposes the reader to the analysis of real data. The next six chapters develop the probability material that facilitates the transition from simply describing data to drawing formal conclusions based on inferential methodology. Point estimation, the use of statistical intervals, and hypothesis testing are the topics of the first three inferential chapters. The remainder of the book explores the use of these methods in a variety of more complex settings. This edition includes many new examples and exercises as well as

an introduction to the simulation of events and probability distributions. There are more than 1300 exercises in the book, ranging from very straightforward to reasonably challenging. Many sections have been rewritten with the goal of streamlining and providing a more accessible exposition. Output from the most common statistical software packages is included wherever appropriate (a feature absent from virtually all other mathematical statistics textbooks). The authors hope that their enthusiasm for the theory and applicability of statistics to real world problems will encourage students to pursue more training in the discipline.

Sports Finance 2018 Angel Barajas 2019-10-16 Sports economics is a relatively new field of research that is experiencing rapid growth in the economics literature. The importance of the sports industry to economies coupled with the availability of financial and productivity data have made the study of sports economics a useful avenue for exploring research questions that have eluded mainstream economics fields. The main goal of this Special Issue of the International Journal of Financial Studies is to encourage theoretical and applied research in sports economics, which is of interest to both academics and practitioners. For this purpose, this Special Issue on "Sports Finance" invites papers on topics, such as, but not limited to, salary determination, ticket pricing, revenue sharing, salary caps, competitive balance, new stadium financing, rival league behavior, determinants of revenue, television and media, tournament prize structures, financial distress in professional sports, financial fair play, financial control of sports clubs, Third Party Ownership, financial efficiency in professional sports, budget constrains and sport

performance, financial information of sports, ownership of professional sport clubs and Crowdfunding in sports. Papers on both professional and amateur sports are welcome.

Mastering Mobile Forensics

Soufiane Tahiri 2016-05-30 Develop the capacity to dig deeper into mobile device data acquisition About This Book A mastering guide to help you overcome the roadblocks you face when dealing with mobile forensics Excel at the art of extracting data, recovering deleted data, bypassing screen locks, and much more Get best practices to how to collect and analyze mobile device data and accurately document your investigations Who This Book Is For The book is for mobile forensics professionals who have experience in handling forensic tools and methods. This book is designed for skilled digital forensic examiners, mobile forensic investigators, and law enforcement officers. What You Will Learn Understand the mobile forensics process model and get guidelines on mobile device forensics Acquire in-depth knowledge about smartphone acquisition and acquisition methods Gain a solid understanding of the architecture of operating systems, file formats, and mobile phone internal memory Explore the topics of of mobile security, data leak, and evidence recovery Dive into advanced topics such as GPS analysis, file carving, encryption, encoding, unpacking, and decompiling mobile application processes In Detail Mobile forensics presents a real challenge to the forensic community due to the fast and unstoppable changes in technology. This book aims to provide the forensic community an in-depth insight into mobile forensic techniques when it comes to deal with recent smartphones operating systems Starting with a brief overview of

forensic strategies and investigation procedures, you will understand the concepts of file carving, GPS analysis, and string analyzing. You will also see the difference between encryption, encoding, and hashing methods and get to grips with the fundamentals of reverse code engineering. Next, the book will walk you through the iOS, Android and Windows Phone architectures and filesystem, followed by showing you various forensic approaches and data gathering techniques. You will also explore advanced forensic techniques and find out how to deal with third-applications using case studies. The book will help you master data acquisition on Windows Phone 8. By the end of this book, you will be acquainted with best practices and the different models used in mobile forensics. Style and approach The book is a comprehensive guide that will help the IT forensics community to go more in-depth into the investigation process and mobile devices take-over.

Food Cost Review 1984

Glossary and Sample Exams for DeVore's Probability and Statistics for Engineering and the Sciences, 7th Jay L. Devore 2008-01-18

Le point 2008

Medicinal and Aromatic Plants of the World - Africa Volume 3 Mohamed Neffati 2017-09-07 This volume in the series is devoted to Africa, a continent that possesses a vast treasure of medicinal plants and has produced some exclusive materials for the world market. This volume is expected to strengthen the medicinal plant sector in African countries by making comprehensive information on medicinal and aromatic plants available to policy-makers and entrepreneurs. It can be used to frame effective policies and create an environment conducive to the growth of the plant-based medicine industry, providing

economic benefit to African nations. It will help health organizations to improve the health of their people by using their own resources and a less expensive system of medicine, which is accepted by African society. It could also lead scientific communities to increase R&D activities in the field.

International Conference on Advanced Computing Networking and Informatics

Raj Kamal 2018-11-27 The book comprises selected papers presented at the International Conference on Advanced Computing, Networking and Informatics (ICANI 2018), organized by Medi-Caps University, India. It includes novel and original research work on advanced computing, networking and informatics, and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques in the field of computing and networking.

Stuck in Paris Nikki Khanna 2020-09 Riley Blakely and the remainder of Grandview High's french class is heading out on a school trip to Paris. The three weeks in Paris are supposed to be an 'educational opportunity' for this lot. But of course, these hormonal teenagers just cannot abide by the rules. The one rule set by their lovely Mr. Walker: You cannot room with somebody of the opposite gender.So what does this french class do? Room with the opposite gender, with a funny way of picking roommates. Chit picking. Because hormonal teenagers can just never get enough.Insert Asher West. Her not so secret annoying hater. It's a hate-hate relationship.He's the guy who picked Riley's name. He's the most popular guy in the freaking school and Riley? Not so much. Put the two together and you'll get a whole lot of arguments and awkward moments.They're roommates and the

Paris, the city of love and the city of lights

High-Performance Composite Structures

A. Praveen Kumar 2021-12-08 This book covers advanced 3D printing processes and the latest developments in novel composite-based printing materials, thus enabling the reader to understand and benefit from the advantages of this groundbreaking technology. The rise in ecological anxieties has forced scientists and researchers from all over the world to find novel lightweight materials. Therefore, it is necessary to expand knowledge about the processing, applications, and challenges of 3D printing of composite materials to expanding the range of their application. This book presents an extensive survey on recent improvements in the research and development of additive manufacturing technologies that are used to make composite structures for various applications such as electronic, aerospace, construction, and biomedical applications. Advanced printing techniques including fused deposition modeling (FDM), selective laser sintering (SLS), selective laser melting (SLM), electron beam melting (EBM), inkjet 3D printing (3DP), stereolithography (SLA), and 3D plotting will be covered and discussed thoroughly in this book. This book also focuses the recent advances and challenges in polymer nanocomposite and introduces potential applications of these materials in various sectors.

Nutrition and Eye Health

John Lawrenson 2020-01-03 Blindness and visual impairment impact significantly on an individual's physical and mental well-being. Loss of vision is a global health problem, with approximately 250 million of the world's population currently living with vision loss, of which 36 million are classified as blind. Visual impairment

more frequent in the elderly, with cataract and age-related macular degeneration (AMD) accounting for over 50% of cases globally. Oxidative stress has been strongly implicated in the pathogenesis of both conditions, and consequently the role of nutritional factors, in particular carotenoids and micronutrient antioxidants, have been investigated as possible preventative or therapeutic strategies. Dry eye syndrome (DES) is one of the most common ophthalmic conditions in the world. DES occurs where the eye does not produce enough tears and/or the tears evaporate too quicklyleading to discomfort and varying degrees of visual disturbance. There has recently been a great deal of interest in the potential for oral or topical supplementation with essential fatty acids (EFAs), specifically omega-3 and omega-6 fatty acids, as an adjunct to conventional treatments for DES. The objective of this Special Issue on 'Nutrition and Eye Health' is to publish papers describing the role of nutrition in maintaining eye health and the use of nutritional interventions to prevent or treat ocular disease. A particular (but not exclusive) emphasis will be on papers (reviews and/or clinical or experimental studies) relating to cataract, AMD and DES.

Sustainability Through Innovation in Product Life Cycle Design Mitsutaka Matsumoto 2016-09-19 This book consists of chapters based on selected papers presented at the EcoDesign2015 symposium (9th International Symposium on Environmentally Conscious Design and Inverse Manufacturing). The symposium, taking place in Tokyo in December 2015, has been leading the research and practices of eco-design of products and product-related services since it was first held in 1999. The proceedings of EcoDesign2011 were also

published by Springer. Eco-design of products and product-related services (or product life cycle design) are indispensable to realize the circular economy and to increase resource efficiencies of our society. This book covers the state of the art of the research and the practices in eco-design, which are necessary in both developed and developing countries. The chapters of the book, all of which were peer-reviewed, have been contributed by authors from around the world, especially from East Asia, Europe, and Southeast Asia. The features of the book include (1) coverage of the latest topics in the field, e.g., global eco-design management, data usage in eco-design, and social perspectives in eco-design; (2) an increased number of authors from Southeast Asian countries, with a greater emphasis on eco-design in emerging economies; (3) high-quality manuscripts, with the number of chapters less than half

of that of the previous book.
IPv6 Deployment Guide 2008
Exact and Heuristic Scheduling Algorithms Frank Werner 2020-03-18 This edited book presents new results in the area of the development of exact and heuristic scheduling algorithms. It contains eight articles accepted for publication for a Special Issue in the journal Algorithms. The book presents new algorithms, e.g., for flow shop, job shop, and parallel machine scheduling problems. The particular articles address subjects such as a heuristic for the routing and scheduling problem with time windows, applied to the automotive industry in Mexico, a heuristic for the blocking job shop problem with tardiness minimization based on new neighborhood structures, fast heuristics for the Euclidean traveling salesman problem or a new mathematical model for the period-aggregated resource leveling problem with

job duration, and several others.

Acoustic Ecology of European Bats Michel Barataud 2015-07 Bats, being nocturnal flying mammals, have developed a special and very efficient means of navigating in the dark: the sonar. Although the acoustic signals they emit are inaudible to the human ear, they can be perceived, recorded and analysed with appropriate equipment and software. This book is a product of the knowledge and skill acquired by its author over more than two decades of constant research on the subject of ultrasound detection. The initial, purely auditory, approach is complemented by the computed-assisted analysis of the ultrasonic signals. With the method described in this book, a bat detector and a computer, the reader will be able to identify about 85% of bat acoustic records in Europe, carry out bat inventories and other more in-depth surveys without disturbing the animals. Thirty-five of the 42 European bat species, including all the most widespread species, are covered.

Design for Embedded Image Processing on FPGAs Donald G. Bailey 2011-06-13 Dr Donald Bailey starts with introductory material considering the problem of embedded image processing, and how some of the issues may be solved using parallel hardware solutions. Field programmable gate arrays (FPGAs) are introduced as a technology that provides flexible, fine-grained hardware that can readily exploit parallelism within many image processing algorithms. A brief review of FPGA programming languages provides the link between a software mindset normally associated with image processing algorithms, and the hardware mindset required for efficient utilization of a parallel hardware design. The design process for implementing an image processing a

FPGA is compared with that for a conventional software implementation, with the key differences highlighted. Particular attention is given to the techniques for mapping an algorithm onto an FPGA implementation, considering timing, memory bandwidth and resource constraints, and efficient hardware computational techniques. Extensive coverage is given of a range of low and intermediate level image processing operations, discussing efficient implementations and how these may vary according to the application. The techniques are illustrated with several example applications or case studies from projects or applications he has been involved with. Issues such as interfacing between the FPGA and peripheral devices are covered briefly, as is designing the system in such a way that it can be more readily debugged and tuned. Provides a bridge between algorithms and hardware Demonstrates how to avoid many of the potential pitfalls Offers practical recommendations and solutions Illustrates several real-world applications and case studies Allows those with software backgrounds to understand efficient hardware implementation Design for Embedded Image Processing on FPGAs is ideal for researchers and engineers in the vision or image processing industry, who are looking at smart sensors, machine vision, and robotic vision, as well as FPGA developers and application engineers. The book can also be used by graduate students studying imaging systems, computer engineering, digital design, circuit design, or computer science. It can also be used as supplementary text for courses in advanced digital design, algorithm and hardware implementation, and digital signal processing a

Companion website for the book: www.wiley.com/go/bailey/fpga