

Ra C Duire Et Optimiser Les Coa Ts Finance Dfcg

This book covers all aspects of imaging diagnosis of shoulder disorders from a clinical perspective. After discussion of relevant imaging techniques, a wide spectrum of disorders is addressed in a series of dedicated chapters on rotator cuff injuries and impingement syndromes, biceps tendon and rotator interval pathology, glenohumeral instability, SLAP tears and microinstability, shoulder girdle fractures, shoulder arthropathies, tumors and tumor-like conditions, and entrapment neuropathies. Separate consideration is also given to the pediatric shoulder and to preoperative planning, postoperative imaging, and surgical techniques in patients undergoing shoulder arthroplasty. The unique anatomy and range of motion of the shoulder joint can present a diagnostic challenge. Characterization of soft tissue injuries and radiographically occult osseous pathology is often facilitated by the use of advanced imaging techniques, including MRI, CT, and ultrasound. Readers will find this excellently illustrated book to be an invaluable aid to diagnostic interpretation when employing these techniques.

Optimization in Mechanics: Problems and Methods investigates various problems and methods of optimization in mechanics. The subjects under study range from minimization of masses and stresses or displacements, to maximization of loads, vibration frequencies, and critical speeds of rotating shafts. Comprised of seven chapters, this book begins by presenting examples of optimization problems in mechanics and considering their application, as well as illustrating the usefulness of some optimizations like those of a reinforced shell, a robot, and a booster. The next chapter outlines some of the mathematical concepts that form the framework for optimization methods and techniques and demonstrates their efficiency in yielding relevant results. Subsequent chapters focus on the Kuhn Tucker theorem and duality, with proofs; associated problems and classical numerical methods of mathematical programming, including gradient and conjugate gradient methods; and techniques for dealing with large-scale problems. The book concludes by describing optimizations of discrete or continuous structures subject to dynamical effects. Mass minimization and fundamental eigenvalue problems as well as problems of minimization of some dynamical responses are studied. This monograph is written for students, engineers, scientists, and even self-taught individuals.

Recent improvements in business process strategies have allowed more opportunities to attain greater developmental performances. This has led to higher success in day-to-day production and overall competitive advantage. The Handbook of Research on Manufacturing Process Modeling and Optimization Strategies is a pivotal reference source for the latest research on the various manufacturing methodologies and highlights the best optimization approaches to achieve boosted process performance. Featuring extensive coverage on relevant areas such as genetic algorithms, fuzzy set theory, and soft computing techniques, this publication is an ideal resource for researchers, practitioners, academicians, designers, manufacturing engineers, and institutions involved in design and manufacturing projects.

Presents major reviews of all current areas of acarology research.

Multi-Objective Optimization using Evolutionary Algorithms

Project Surveying: General Adjustment and Optimization Techniques with Applications to Engineering Surveying

Optimization in Mechanics

SIAM Journal on Control and Optimization

Physical Health of Adults with Intellectual and Developmental Disabilities

Problems and Methods

La méthodologie de l'entraînement en cyclisme demande une analyse scientifique, technique et pratique des principaux déterminants de la performance. C'est ce que propose cet ouvrage. Son objectif principal est de permettre aux passionnés de cyclisme, coureurs, entraîneurs en STAPS, médecins du sport, d'associer étroitement le savoir scientifique issu de la recherche avec le savoir-faire pratique des entraîneurs, afin d'enrichir l'ensemble des connaissances dans l'activité. Quatre axes fondamentaux sont ainsi développés : - physiologique, du plus fondamental au plus appliqué - biomécanique, de l'analyse du geste à son optimisation - suivi du cycliste, de la méthode à l'application - enfin, l'axe psychologique, du groupe à l'individu Sans donner de recettes précises, l'ouvrage montre qu'il est possible d'améliorer la capacité de performance du cycliste en définissant et analysant les principaux déterminants de la performance, permettant ainsi au lecteur d'orienter, de construire et de rationaliser le processus d'entraînement de l'athlète. Cette nouvelle édition propose une "foire aux questions" très complète dans laquelle l'auteur répond aux interrogations des internautes.

Along with its sister dermatologic volume, this comprehensive textbook of laser technology covers the use of lasers to treat vascular anomalies and lesions, control of pigmented lesions and tattoos, hair removal, acne, facial rejuvenation, Psoriasis, hypopigmented lesions and Vitiligo. Chapters are formatted in an easy to follow format with clear concise sections with bulleted summaries to highlight key points. Lasers in Dermatology and Medicine: Dermatologic Applications provides detailed explanations of when lasers can be of use how to use them across a range of medical disciplines. Clinically relevant examples are provided along with relevant images and summary boxes to highlight key points. It therefore provides a critical resource on the applications and use of lasers across medicine for both the trainee and trained clinician.

INRIA, Institut National de Recherche en Informatique et en Automatique

Evolutionary algorithms are relatively new, but very powerful techniques used to find solutions to many real-world search and optimization problems. Many of these problems have multiple objectives, which leads to the need to obtain a set of optimal solutions, known as effective solutions. It has been found that using evolutionary algorithms is a highly effective way of finding multiple effective solutions in a single simulation run. Comprehensive coverage of this growing area of research Carefully introduces each algorithm with examples and in-depth discussion Includes many applications to real-world problems, including engineering design and scheduling Includes discussion of advanced topics and future research Can be used as a course text or for self-study Accessible to those with limited knowledge of classical multi-objective optimization and evolutionary algorithms The integrated presentation of theory, algorithms and examples will benefit those working and researching in the areas of optimization, optimal design and evolutionary computing. This text provides an excellent introduction to the use of evolutionary algorithms in multi-objective optimization, allowing use as a graduate course text or for self-study.

Applied Mechanics Reviews

Cancer Chemotherapy and Biotherapy

The Shoulder

Instruments, Products, and Case Studies

Trends in the Analysis and Design of Marine Structures

Multiple Myeloma and Related Disorders

Engineering Tribology, 4th Edition is an established introductory reference focusing on the key concepts and engineering implications of tribology. Taking an interdisciplinary view, the book brings together the relevant knowledge from different fields needed to achieve effective analysis and control of friction and wear. Updated to cover recent advances in tribology, this new edition includes new sections on tonic and mesogenic lubricants, surface texturing, and multiscale characterization of 3D surfaces and coatings. Current trends in nanotribology are discussed, such as those relating to lubricants, coatings and composites, and geotribology is introduced. Suitable as an introductory text, a refresher or an on-the-job reference, *Engineering Tribology, 4th Edition* is intended for final year undergraduate and postgraduate students in mechanical engineering as well as professional engineers. It is also relevant to those working in materials engineering, applied chemistry, physics and bioengineering. Offers a comprehensive overview of the mechanisms of wear, lubrication and friction in an accessible manner designed to aid novice engineers, non-specialists and students Provides a reader-friendly approach to the subject using illustrations to break down the technically complex problems associated with tribology Includes end-of-chapter problems to test understanding

Updated to include the newest drugs and those currently in development, this Fifth Edition is a comprehensive reference on the preclinical and clinical pharmacology of anticancer agents. Organized by drug class, the book provides the latest information on all drugs and biological agents—their mechanisms of action, interactions with other agents, toxicities, side effects, and mechanisms of resistance. The authors explain the rationale for use of drugs in specific schedules and combinations and offer guidelines for dose adjustment in particular situations. This edition's introduction includes timely information on general strategies for drug usage, the science of drug discovery and development, economic and regulatory aspects of cancer drug development, and principles of pharmacokinetics. Eight new chapters have been added and more than twenty have been significantly revised. A companion website includes the fully searchable text and an image bank.

During the past decade there has been an enormous increase in knowledge of multiple myeloma and related disorders, reflected in the publication of more than 5000 articles on the subject in scientific journals. Much of this has come about as new technologies have made it possible to refine studies on chromosomes and genes and to gain information about gene expression. It is therefore highly appropriate that this new comprehensive reference should appear at this time. The book covers the whole field of multiple myeloma, and also related diseases such as Waldenström's macroglobulinaemia, and incorporates both the basic science underlying the diseases and their clinical management. Each chapter has been written to 'stand alone', allowing the reader to dip into a particular subject and find information quickly without the need to browse through multiple chapters. In addition to the developments described above, all of which are considered here, many other approaches to targeted therapy are reviewed.

This fully revised and expanded second edition brings together findings from research and clinical practice, with comprehensive coverage of the important aspects of physical health in persons with intellectual disability. Professionals involved in the medical and social care and support of persons with intellectual disability should have a broad understanding of the essential range of issues, and therefore this book provides a truly multi-disciplinary perspective, complete with many tables, figures, and illustrations to underline the key points. The reader is updated on ongoing developments in the general population, which will become increasingly more relevant to adults with intellectual disability. This book also acknowledges that the impact on the person and on their carers always needs to be taken into account, with treatment programs established with a multi-faceted team approach in mind. This book is aimed at an international audience of physicians and other allied health personnel concerned about the health and welfare of adults with intellectual disability. It should also be of interest to researchers, administrators, and senior program personnel engaged in this field.

A Practical Approach

Optimisation et analyse convexe

Advances in Stochastic and Deterministic Global Optimization

Tools and Algorithms for the Construction and Analysis of Systems

Science et méthodologie de l'entraînement

Acarology

This handbook gathers state-of-the-art research on optimization problems in power distribution systems, covering classical problems as well as the challenges introduced by distributed power generation and smart grid resources. It also presents recent models, solution techniques and computational tools to solve planning problems for power distribution systems and explains how to apply them in distributed and variable energy generation resources. As such, the book therefore is a valuable tool to leverage the expansion and operation planning of electricity distribution networks.

Ce livre considère le traitement de problèmes d'optimisation de grande taille. L'idée est d'éclater le problème d'optimisation global en sous-problèmes plus petits, donc plus faciles à résoudre, chacun impliquant l'un des sous-systèmes (décomposition), mais sans renoncer à obtenir l'optimum global, ce qui nécessite d'utiliser une procédure itérative (coordination). Ce sujet a fait l'objet de plusieurs livres publiés dans les années 70 dans le contexte de l'optimisation déterministe. Nous présentons ici les principes essentiels et méthodes de décomposition-coordination au travers de situations typiques, puis nous proposons un cadre général qui permet de construire des algorithmes corrects et d'étudier leur convergence. Cette théorie est présentée aussi bien dans le contexte de l'optimisation déterministe que stochastique. Ce matériel a été enseigné par les auteurs dans divers cours de 3ème cycle et également mis en œuvre dans de nombreuses applications industrielles. Des exercices et problèmes avec corrigés illustrent le potentiel de cette approche. This book discusses large-scale optimization problems involving systems made up of interconnected subsystems. The main viewpoint is to break down the overall optimization problem into smaller, easier-to-solve subproblems, each involving one subsystem (decomposition), without sacrificing the objective of achieving the global optimum, which requires an iterative process (coordination). This topic emerged in the 70's in the context of deterministic optimization. The present book describes the main principles and methods of decomposition-coordination using typical situations, then proposes a general framework that makes it possible to construct well-behaved algorithms and to study their convergence. This theory is presented in the context of deterministic as well as stochastic optimization and has been taught by the authors in graduate courses and implemented in numerous industrial applications. The book also provides exercises and problems with answers to illustrate the potential of this approach.

In recent years, the development of advanced structures for providing sustainable energy has been a topic at the forefront of public and political consideration. Many are looking for advancements on pre-existing sources and new and viable energy options to maintain a modern lifestyle. The Handbook of Research on Power and Energy System Optimization is a critical scholarly resource that examines the usage of energy in relation to the perceived standard of living within a country and explores the importance of energy structure augmentation. Featuring coverage on a wide range of topics including energy management, micro-grid, and distribution generation, this publication is targeted towards researchers, academicians, and students seeking relevant research on the augmentation of current energy structures to support existing standards of living.

This book provides a wide-ranging overview of the current state of tourist destination management and presents important recent research in the field. Contemporary theoretical and methodological approaches to management and marketing are discussed, and innovative practices with respect to both urban and rural destinations are described with the aid of many interesting case studies from across Europe and beyond. In addition, the volume addresses key issues such as governance, cooperation, the use of social media, and sustainability. A variety of influences on tourism development are examined, and efficient strategies for making destinations distinct are explored. The book will be a welcome addition and update to the existing literature and will be of interest to academics and practitioners alike.

Imaging Diagnosis with Clinical Implications

Principles and Practice

Revue Générale Nucléaire

Non-Oxide Technical and Engineering Ceramics

Proceedings of the NATO Advanced Study Institute held at the Palais des Congrès, Versailles, France, 2–13 September, 1974

SMART Technologies for Natural Resource Conservation and Sustainable Development

"Combinatorial Programming" are two words whose juxtaposition still strike us as unusual, nevertheless their association in recent years adequately reflects the preoccupations underlying differing work fields, and their importance will increase both from methodology and application view points. To those who like definitions and consider the function of this book to furnish one for combinatorial programming, I will simply say that it is precisely by this which is exclusively treated here and which in the eyes of the authors is the heart of this branch of applied mathematics. Such was the initial intention of those who in the spring of 1973 gathered tog-ther in Paris to state the work of the Advanced Study Institute from which this book arises. As young as combinatorial programming is, it was easy to see that a two week school was insufficient to cover the subject in an exhaustive manner. Finally the decision had to be taken to reduce to book form, and to organise within this particular means of expression, the essential syntheses and communications. Unfortunately the discussions, the round tables, and the majority of the case studies could not be included in this book which is more of a hand-book on the subject. XIV

PREFACE The choice and orientation of the surveys has been guided by two criteria: the importance of already accomplished work, and the originality of the survey to be undertaken.

The Oxford Textbook of Rheumatoid Arthritis covers all relevant aspects of the disease, ranging from basic science, epidemiology, clinical and laboratory assessments, drug and non-drug treatments, and disease outcomes. Written by an international team of experts, it will be an invaluable resource for those involved with people with RA.

Heat transfer laws for conduction, radiation and convection change when the dimensions of the systems in question shrink. The altered behaviours can be used efficiently in energy conversion, respectively bio- and high-performance materials to control microelectronic devices. To understand and model those thermal mechanisms, specific metrologies have to be established. This book provides an overview of actual devices and materials involving micro-nanoscale heat transfer mechanisms. These are clearly explained and exemplified by a large spectrum of relevant physical models, while the most advanced nanoscale thermal metrologies are presented.

Trends in the Analysis and Design of Marine Structures is a collection of the papers presented at MARSTRUCT 2019, the 7th International Conference on Marine Structures held in Dubrovnik, Croatia, 6-8 May 2019. The MARSTRUCT series of Conferences started in Glasgow, UK in 2007, the second event of the series having taken place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in

March 2011, the fourth in Espoo, Finland in March 2013, the fifth in Southampton, UK in March 2015, and the sixth in Lisbon, Portugal in May 2017. This Conference series specialises in dealing with Ships and Offshore Structures, addressing topics in the fields of: - Methods and Tools for Loads and Load Effects - Methods and Tools for Strength Assessment - Experimental Analysis of Structures - Materials and Fabrication of Structures - Methods and Tools for Structural Design and Optimisation - Structural Reliability, Safety and Environmental Protection. Trends in the Analysis and Design of Marine Structures is an essential document for academics, engineers and all professionals involved in the area of analysis and design of Ships and Offshore Structures. About the series: The 'Proceedings in Marine Technology and Ocean Engineering' series is devoted to the publication of proceedings of peer-reviewed international conferences dealing with various aspects of 'Marine Technology and Ocean Engineering'. The Series includes the proceedings of the following conferences: the International Maritime Association of the Mediterranean (IMAM) conferences, the Marine Structures (MARSTRUCT) conferences, the Renewable Energy Offshore (RENEW) conferences and the Maritime Technology (MARTECH) conferences. The 'Marine Technology and Ocean Engineering' series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various fields, such as maritime transport and ports, usage of the ocean including coastal areas, nautical activities, the

exploration and exploitation of mineral resources, the protection of the marine environment and its resources, and risk analysis, safety and reliability. The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research.

Thermal Nanosystems and Nanomaterials

Handbook of Optimization in Electric Power Distribution Systems

Microbial Plant Pathogens, Volume 1

Structural Optimization

mise en œuvre sous Oracle

Proceedings of the 7th International Conference on Marine Structures (MARSTRUCT 2019, Dubrovnik, Croatia, 6-8 May 2019)

Conferences on technical and engineering ceramics are held with increasing frequency, having become fashionable because the potential of ceramics in profitable growth industries is an urgent matter of considerable debate and discussion. Japanese predictions are that the market value of ceramics will grow 10 at about 10% per annum to reach at least \$10 by the end of the century. Seventy per cent of this market will be in electroceramics, applications for which include insulating substrates in integrated circuits, ferroelectric oscillators and transdu cers, ferrite magnets, and ion-conducting solid electrolytes and sen sors. All these are oxides, and so are excluded by the title of the Limerick Conference. Why 'Non-oxide'? The other major ceramics potential is in structural engineering components and engine applications. Here, the greatest impetus to research and development has been the attempt to produce a ceramic gas turbine. Heat engines become more efficient as their working temperature increases, but nickel-base superalloy en gines have also reached their limit. Compared with metals, ceramics have higher strengths at high temperatures, better oxidation and corrosion resistance, and are also less dense. In general, ceramics have better properties above about 1000°C except in one respect-their inherent brittleness. The work of fracture is therefore much smaller than for metals and so the permitted flaw size is also smaller.

This book provides detailed, state-of-the-art information and guidelines on the latest developments, innovations, and clinical procedures in image-guided and adaptive radiation therapy. The first section discusses key methodological and technological issues in image-guided and adaptive radiation therapy, including use of implanted fiducial markers, management of respiratory motion, image-guided stereotactic radiosurgery and stereotactic body radiation therapy, three-dimensional conformal brachytherapy, target definition and localization, and PET/CT and biologically conformal radiation therapy. The second section provides practical clinical information on image-guided adaptive radiation therapy for cancers at all common anatomic sites and for pediatric cancers. The third section offers practical guidelines for establishing an effective image-guided adaptive radiation therapy program.

This book addresses the design of emerging conceptual tools, technologies and systems including novel synthetic parts, devices, circuits, oscillators, biological gates, and small regulatory RNAs (riboregulators and riboswitches), which serve as versatile control elements for regulating gene expression. Synthetic biology, a rapidly growing field that involves the application of engineering principles in biology, is now being used to develop novel systems for a wide range of applications including diagnostics, cell reprogramming, therapeutics, enzymes, vaccines, biomaterials, biofuels, fine chemicals and many more. The book subsequently summarizes recent developments in technologies for assembling synthetic genomes, minimal genomes, synthetic biology toolboxes, CRISPR-Cas systems, cell-free protein synthesis systems and microfluidics. Accordingly, it offers a valuable resource not only for beginners in synthetic biology, but also for researchers, students, scientists, clinicians, stakeholders and policymakers interested in the potential held by synthetic biology.

Cet ouvrage a pour objectif de mettre à la portée des développeurs les connaissances utiles à l'optimisation des bases de données. Cette activité est souvent confiée aux administrateurs de bases de données (DBA) une fois que les projets sont terminés, alors que c'est au niveau du développement qu'il faut se pencher sur la problématique des performances. De manière claire et pragmatique, l'auteur expose les différentes techniques en les présentant en situation. Pour chacune d'elles, il montre à l'aide d'un cas concret ce qu'elle améliore et dans quel contexte elle agit efficacement. En homme du terrain, il les compare et prend parti. L'ouvrage se fonde pour une grande part sur le système de bases de données Oracle (versions 9i, 10g, 11g Release 1 et 2), toutefois des parallèles sont fait régulièrement avec Microsoft SQL Serveur (versions 2005 et 2008) et MySQL (version 5.1) par le biais d'encadrés et de paragraphes dédiés. Les techniques présentées pour ces trois systèmes sont communes à de nombreux autres SGBDR, le lecteur pourra ainsi appliquer les conseils de ce livre à quasiment toutes les bases de données relationnelles du marché.

Image-Guided and Adaptive Radiation Therapy

21st International Conference, TACAS 2015, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2015, London, UK, April 11-18, 2015, Proceedings

Advances in Synthetic Biology

Molecular Biology in Plant Pathogenesis and Disease Management

Analyse Spatiale de Données Biodémographiques

Multiple Sclerosis and Related Disorders provides evidence-based data and experience-based guidance for delivering quality long-term care to MS patients. Information on disease history, pathophysiology, and biology is included to provide clinicians with a framework for understanding current diagnosis, monitoring, and treatment strategies for these disorders. In addition to thoroughly reviewing the newest disease-modifying treatments, the authors have devoted significant focus to the symptoms that frequently manifest and their treatment options. Symptoms and functional limitations are the face of the disease for patients, and present their own set of challenges for practitioners. The book proceeds through diagnosis (initial symptoms, criteria and classification, imaging, lab tests, and differential diagnosis), approved treatments for the various MS types including emergency therapies where appropriate, symptom management, rehabilitative issues, general health and wellness, and an overview of MS clinical trials. Special populations, societal and family issues, and related disorders that are often mistaken for MS are also covered. Dedicated chapters on neuromyelinic optica and acute disseminated encephalomyelitis incorporate newer diagnostic criteria. Because comorbidities often make the management of MS-related disability more complex, the book addresses these comorbidities as part of a comprehensive management plan. To enhance the clinical utility, critical-to-know information and management pearls are boxed for quick reference and most chapters include lists of iKey Points! for clinicians, and for patients and families. Illustrations, tables, graphs, assessment scales, and up-to-date MRI imaging inform the text throughout. The treatment chapters include specific recommendations where available and highlight areas of controversy. Illustrative cases go beyond the literature to amplify clinical recommendations and provide real-world guidance for practitioners. Illustrations, tables, graphs, assessment scales, and up-to-date MRI imaging inform the text throughout. Multiple Sclerosis and Related Disorders features: Comprehensive clinical reference for all members of the MS care team Focus on practical approaches to diagnosis, treatment, counseling, and rehabilitative strategies Reviews the latest disease modifying therapies Extensive chapters on symptom management and women's issues in MS Edited and written primarily by expert clinicians at Cleveland Clinic/Mellen Center Evidence- and experience-based guidance Dedicated chapters on neuromyelinic optica and acute disseminated encephalomyelitis incorporating newer diagnostic criteria Includes treatment guidelines and numerous illustrations, tables, scales; key information is highlighted for quick reference

This new book is designed to enable researchers to design and undertake all aspects of a phage display project, from designing an experimental strategy and constructing a library to performing selections and analyzing the results.All of the protocols and chapters are extensively cross-referenced, allowing readers to move beyond the specific examples provided in order to customize the procedures for their own protein or selection system of interest. Phage Display is an up-to-date, comprehensive and integrated experimental guide to the technique, which is essential reading for anyone currently using, or wishing to use the technique for basic research and drug discovery.

Studies on molecular biology of pathogens, infection process and disease resistance, have provided information essentially required to understand the vulnerable stages at which the pathogens can be tackled effectively and to adopt novel strategies to incorporate disease resistance genes from diverse sources and /or to induce resistance of cultivars with desirable agronomic attributes using biotic or abiotic agents. The nature of interaction between the gene products of the pathogen and plant appears to determine the outcome of the interaction resulting in either disease progression or suppression. Transgenic plants with engineered genes show promise for effective exploitation of this approach for practical application. Research efforts during the recent years to sequence the whole genomes of the pathogens and plants may lead to development of better ways of manipulating disease resistance mechanisms enabling the grower to achieve higher production levels and the consumer to enjoy safer food and agricultural products. Experimental protocols included in appropriate chapters will be useful for researchers and graduate students.

This book constitutes the proceedings of the 21st International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2015, which took place in London, UK, in April 2015, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2015. The 45 papers included in this volume, consisting of 27 research papers, 2 case-study papers, 7 regular tool papers, and 9 tool demonstration papers, were carefully reviewed and selected from 164 submissions. In addition, the book contains one invited contribution. The papers have been organized in topical sections on hybrid systems; program analysis; verification and abstraction; tool demonstrations; stochastic models; SAT and SMT; partial order reduction, bisimulation, and fairness; competition on software verification; parameter synthesis; program synthesis; program and runtime verification; temporal logic and automata and model checking.

Engineering Tribology

Optimisation des bases de données

Dermatologic Applications

Oxford Textbook of Rheumatoid Arthritis

Handbook of Research on Manufacturing Process Modeling and Optimization Strategies

Artificial Life and Computational Intelligence

This book constitutes the refereed proceedings of the Third Australasian Conference on Artificial Life and Computational Intelligence, ACALCI 2017, held in Geelong, VIC, Australia, in January/February 2017. The 32 papers presented in this volume were carefully reviewed and selected from 47 submissions. They were organized in topical sections named: artificial life and computational intelligence and optimization algorithms and applications.

This volume is the first to combine latest information on viral, microbial and cellular proteolytic enzymes as potential targets for human therapeutics. Proteases control a large array of physiological reactions, and are involved in a variety of pathological processes for which effective medications are currently needed and/or being sought after. Although protease inhibitors have been investigated for many years, few have been employed therapeutically. Recent break-through by HIV protease inhibitors as therapeutic drugs has re-encouraged the search for inhibitors of other proteolytic enzymes. Klaus von der Helm, who described the first viral protease has brought leading experts together to discuss not only the success and problems of clinical use and continuing prospects, but to review further potential drug targets. This volume provides detailed information and evaluations of key viral, bacterial, fungal, and cellular proteases as potential future drug candidates. The book is a conference proceeding on adoption and application of sustainable, Manageable, Appropriate, Rational and Transferable (SMART) Technologies in all sectors of development.

Current research results in stochastic and deterministic global optimization including single and multiple objectives are explored and presented in this book by leading specialists from various fields. Contributions include applications to multidimensional data visualization, regression, survey calibration, inventory management, timetabling, chemical engineering, energy systems, and competitive facility location. Graduate students, researchers, and scientists in computer science, numerical analysis, optimization, and applied mathematics will be fascinated by the theoretical, computational, and application-oriented aspects of stochastic and deterministic global optimization explored in this book. This volume is dedicated to the 70th birthday of Antanas Žilinskas who is a leading world expert in global optimization. Professor Žilinskas's research has concentrated on studying models for the objective function, the development and implementation of efficient algorithms for global optimization with single and multiple objectives, and application of algorithms for solving real-world practical problems.

Décomposition-coordination en optimisation déterministe et stochastique

Handbook of Research on Power and Energy System Optimization

Cumulated Index Medicus

Proceedings of the 10th International Congress

Recent Developments and Applications

Combinatorial Programming: Methods and Applications