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KEY=SOLUTIONS - RILEY WHEELER

ARTIFICIAL INTELLIGENCE FOR SMART AND SUSTAINABLE ENERGY SYSTEMS AND APPLICATIONS

MDPI Energy has been a crucial element for human beings and sustainable development. The issues of global warming and non-green energy have yet to be resolved. This book is a collection of twelve articles that provide strong evidence for the success of artificial intelligence deployment in energy research, particularly research devoted to non-intrusive load monitoring, network, and grid, as well as other emerging topics. The presented artificial intelligence algorithms may provide insight into how to apply similar approaches, subject to fine-tuning and customization, to other unexplored energy research. The ultimate goal is to fully apply artificial intelligence to the energy sector. This book may serve as a guide for professionals, researchers, and data scientists—namely, how to share opinions and exchange ideas so as to facilitate a better fusion of energy, academic, and industry research, and improve in the quality of people's daily life activities.

KEY BUSINESS SOLUTIONS

ESSENTIAL PROBLEM-SOLVING TOOLS AND TECHNIQUES THAT EVERY MANAGER NEEDS TO KNOW

Pearson UK This book explains how to resolve every challenge faced on a day-to-day basis in your business by presenting an unbeatable inventory of proven problem solving tools and techniques to help you tackle your toughest business dilemmas effectively. You will learn how to: · Overcome any business challenge with robust logic and structure · How to break down problems and make your workload lighter · Deliver the 'killer' recommendations · Discover how to successfully implement change in people and organisations · How to keep yourself, your team, and your stakeholders happy · How to use an effective hypothesis-driven approach to problem solving Using case studies, a 'best practice example' and at least one figurative table or figure, every dilemma is bought to life equipping you with the very best tools to confront any problem your business may face. 'The most successful businesses don't avoid problems - they solve them. This practical, insightful and entertaining book guides you through how to do this. An indispensable resource for any manager.' Richard Newton, Business consultant and best-selling author ----- 'One of the key attributes in running a business successfully is the ability to see a situation in perspective. Too often the real issues go unrecognised, signs are misread, an opportunity slips by, the wrong problem is addressed. Only in retrospect is it obvious what should have been done. It is not easy, but the tools and techniques covered in Key Business Solutions should help.' Sir George Cox, Author of the HM Treasury Cox Review of Creativity in UK Business and former Chairman of the Design Council

INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE IN TRANSPORTATION REVOLUTION

MDPI The advent of Internet of Things offers a scalable and seamless connection of physical objects, including human beings and devices. This, along with artificial intelligence, has moved transportation towards becoming intelligent transportation. This book is a collection of eleven articles that have served as examples of the success of internet of things and artificial intelligence deployment in transportation research. Topics include collision avoidance for surface ships, indoor localization, vehicle authentication, traffic signal control, path-planning of unmanned ships, driver drowsiness and stress detection, vehicle density estimation, maritime vessel flow forecast, and vehicle license plate recognition. High-performance computing services have become more affordable in recent years, which triggered the adoption of deep-learning-based approaches to increase the performance

standards of artificial intelligence models. Nevertheless, it has been pointed out by various researchers that traditional shallow-learning-based approaches usually have an advantage in applications with small datasets. The book can provide information to government officials, researchers, and practitioners. In each article, the authors have summarized the limitations of existing works and offered valuable information on future research directions.

CONSTRAINT HANDLING IN METAHEURISTICS AND APPLICATIONS

[Springer Nature](#) This book aims to discuss the core and underlying principles and analysis of the different constraint handling approaches. The main emphasis of the book is on providing an enriched literature on mathematical modelling of the test as well as real-world problems with constraints, and further development of generalized constraint handling techniques. These techniques may be incorporated in suitable metaheuristics providing a solid optimized solution to the problems and applications being addressed. The book comprises original contributions with an aim to develop and discuss generalized constraint handling approaches/techniques for the metaheuristics and/or the applications being addressed. A variety of novel as well as modified and hybridized techniques have been discussed in the book. The conceptual as well as the mathematical level in all the chapters is well within the grasp of the scientists as well as the undergraduate and graduate students from the engineering and computer science streams. The reader is encouraged to have basic knowledge of probability and mathematical analysis and optimization. The book also provides critical review of the contemporary constraint handling approaches. The contributions of the book may further help to explore new avenues leading towards multidisciplinary research discussions. This book is a complete reference for engineers, scientists, and students studying/working in the optimization, artificial intelligence (AI), or computational intelligence arena.

ADVANCES IN SWARM AND COMPUTATIONAL INTELLIGENCE

6TH INTERNATIONAL CONFERENCE, ICSI 2015, HELD IN CONJUNCTION WITH THE SECOND BRICS CONGRESS, CCI 2015, BEIJING, CHINA, JUNE 25-28, 2015, PROCEEDINGS, PART I

[Springer](#) This book and its companion volumes, LNCS volumes 9140, 9141 and 9142, constitute the proceedings of the 6th International Conference on Swarm Intelligence, ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence, CCI 2015, held in Beijing, China in June 2015. The 161 revised full papers presented were carefully reviewed and selected from 294 submissions. The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development, such as novel swarm-based optimization algorithms and applications; particle swarm optimization; ant colony optimization; artificial bee colony algorithms; evolutionary and genetic algorithms; differential evolution; brain storm optimization algorithm; biogeography based optimization; cuckoo search; hybrid methods; multi-objective optimization; multi-agent systems and swarm robotics; Neural networks and fuzzy methods; data mining approaches; information security; automation control; combinatorial optimization algorithms; scheduling and path planning; machine learning; blind sources separation; swarm interaction behavior; parameters and system optimization; neural networks; evolutionary and genetic algorithms; fuzzy systems; forecasting algorithms; classification; tracking analysis; simulation; image and texture analysis; dimension reduction; system optimization; segmentation and detection system; machine translation; virtual management and disaster analysis.

COMPUTATIONAL SCIENCE AND ITS APPLICATIONS - ICCSA 2020

20TH INTERNATIONAL CONFERENCE, CAGLIARI, ITALY, JULY 1-4, 2020, PROCEEDINGS, PART III

[Springer Nature](#) The seven volumes LNCS 12249-12255 constitute the refereed proceedings of the 20th International Conference on Computational Science and Its Applications, ICCSA 2020, held in Cagliari, Italy, in July 2020. Due to COVID-19 pandemic the conference was organized in an online event. Computational Science is the main pillar of most of the present research, industrial and commercial applications, and plays a unique role in exploiting ICT innovative technologies. The 466 full papers and 32 short papers presented were carefully reviewed and selected from 1450 submissions. Apart from the general track, ICCSA 2020 also include 52 workshops, in various areas of computational sciences, ranging from computational science technologies, to specific areas of computational sciences, such as software engineering, security, machine learning and artificial intelligence, blockchain technologies, and of applications in many fields.

PRODUCT DESIGN FOR MODULARITY

Springer Science & Business Media Kamrani (University of Michigan) and Salhieh (University of Amman) propose a modular approach to the design of complex products using similar components that facilitates a quicker response to changing market demands. The approach focuses on decomposing the overall design problem into functionally independent elements, among which interactions are minimized. The second edition moves the case study of a four gear speed reducer into its own chapter. Annotation copyrighted by Book News, Inc., Portland, OR

ALGORITHMS FOR SCHEDULING PROBLEMS

MDPI This book is a printed edition of the Special Issue " Algorithms for Scheduling Problems" that was published in Algorithms

ADVANCES IN SWARM INTELLIGENCE

12TH INTERNATIONAL CONFERENCE, ICSI 2021, QINGDAO, CHINA, JULY 17-21, 2021, PROCEEDINGS, PART II

Springer Nature his two-volume set LNCS 12689-12690 constitutes the refereed proceedings of the 12th International Conference on Advances in Swarm Intelligence, ICSI 2021, held in Qingdao, China, in July 2021. The 104 full papers presented in this volume were carefully reviewed and selected from 177 submissions. They cover topics such as: Swarm Intelligence and Nature-Inspired Computing; Swarm-based Computing Algorithms for Optimization; Particle Swarm Optimization; Ant Colony Optimization; Differential Evolution; Genetic Algorithm and Evolutionary Computation; Fireworks Algorithms; Brain Storm Optimization Algorithm; Bacterial Foraging Optimization Algorithm; DNA Computing Methods; Multi-Objective Optimization; Swarm Robotics and Multi-Agent System; UAV Cooperation and Control; Machine Learning; Data Mining; and Other Applications.

SIMULATION-BASED OPTIMIZATION

PARAMETRIC OPTIMIZATION TECHNIQUES AND REINFORCEMENT LEARNING

Springer Simulation-Based Optimization: Parametric Optimization Techniques and Reinforcement Learning introduce the evolving area of static and dynamic simulation-based optimization. Covered in detail are model-free optimization techniques - especially designed for those discrete-event, stochastic systems which can be simulated but whose analytical models are difficult to find in closed mathematical forms. Key features of this revised and improved Second Edition include: · Extensive coverage, via step-by-step recipes, of powerful new algorithms for static simulation optimization, including simultaneous perturbation, backtracking adaptive search and nested partitions, in addition to traditional methods, such as response surfaces, Nelder-Mead search and meta-heuristics (simulated annealing, tabu search, and genetic algorithms) · Detailed coverage of the Bellman equation framework for Markov Decision Processes (MDPs), along with dynamic programming (value and policy iteration) for discounted, average, and total reward performance metrics · An in-depth consideration of dynamic simulation optimization via temporal differences and Reinforcement Learning: Q-Learning, SARSA, and R-SMART algorithms, and policy search, via API, Q-P-Learning, actor-critics, and learning automata · A special examination of neural-network-based function approximation for Reinforcement Learning, semi-Markov decision processes (SMDPs), finite-horizon problems, two time scales, case studies for industrial tasks, computer codes (placed online) and convergence proofs, via Banach fixed point theory and Ordinary Differential Equations Themed around three areas in separate sets of chapters - Static Simulation Optimization, Reinforcement Learning and Convergence Analysis - this book is written for researchers and students in the fields of engineering (industrial, systems, electrical and computer), operations research, computer science and applied mathematics.

GENEDIS 2016

COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

Springer The 2nd World Congress on Geriatrics and Neurodegenerative Disease Research (GeNeDis 2016), focuses on recent advances in geriatrics and neurodegeneration, ranging from basic science to clinical and pharmaceutical developments and provides an international forum for the latest scientific discoveries, medical practices and care initiatives. Advanced information technologies are discussed concerning the various research, implementation and policy, as well as European and global issues in the funding of long-term care and medico-social policies regarding elderly people. This volume focuses on the sessions from the conference on computational biology and bioinformatics.

INTELLIGENCE SCIENCE AND BIG DATA ENGINEERING. BIG DATA AND MACHINE LEARNING TECHNIQUES

5TH INTERNATIONAL CONFERENCE, ISCID 2015, SUZHOU, CHINA, JUNE 14-16, 2015, REVISED SELECTED PAPERS, PART II

Springer The two-volume set LNCS 9242 + 9243 constitutes the proceedings of the 5th International Conference on Intelligence Science and Big Data Engineering, ISCID 2015, held in Suzhou, China, in June 2015. The total of 126 papers presented in the proceedings was carefully reviewed and selected from 416 submissions. They deal with big data, neural networks, image processing, computer vision, pattern recognition and graphics, object detection, dimensionality reduction and manifold learning, unsupervised learning and clustering, anomaly detection, semi-supervised learning.

LEARNING TECHNOLOGY FOR EDUCATION CHALLENGES

8TH INTERNATIONAL WORKSHOP, LTEC 2019, ZAMORA, SPAIN, JULY 15-18, 2019, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 8th International Workshop on Learning Technology for Education Challenges, LTEC 2019, held in Zamora, Spain, in July 2019. The 41 revised full papers presented were carefully reviewed and selected from 83 submissions. The papers are organized in the following topical sections: learning technologies; learning tools and environment; e-learning and MOOCs; learning practices; social media learning tools; machine learning and evaluation support programs. LTEC 2019 examines how these technologies and pedagogical advances can be used to change the way teachers teach and students learn, while giving special emphasis to the pedagogically effective ways we can harness these new technologies in education.

19TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING

ESCAPE-19: JUNE 14-17, 2009, CRACOW, POLAND

Elsevier The 19th European Symposium on Computer Aided Process Engineering contains papers presented at the 19th European Symposium of Computer Aided Process Engineering (ESCAPE 19) held in Cracow, Poland, June 14-17, 2009. The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of CAPE. * CD-ROM that accompanies the book contains all research papers and contributions * International in scope with guest speeches and keynote talks from leaders in science and industry * Presents papers covering the latest research, key top areas and developments in computer aided process engineering (CAPE)

MATHEMATICAL ASPECTS OF NETWORK ROUTING OPTIMIZATION

Springer Science & Business Media Before the appearance of broadband links and wireless systems, networks have been used to connect people in new ways. Now, the modern world is connected through large-scale, computational networked systems such as the Internet. Because of the ever-advancing technology of networking, efficient algorithms have become increasingly necessary to solve some of the problems developing in this area. "Mathematical Aspects of Network Routing Optimization" focuses on computational issues arising from the process of optimizing network routes, such as quality of the resulting links and their reliability. Algorithms are a cornerstone for the understanding of the protocols underlying multicast routing. The main objective in the text is to derive efficient algorithms, with or without guarantee of approximation. Notes have been provided for basic topics such as graph theory and linear programming to assist those who are not fully acquainted with the mathematical topics presented throughout the book. "Mathematical Aspects of Network Routing Optimization" provides a thorough introduction to the subject of algorithms for network routing, and focuses especially on multicast and wireless ad hoc systems. This book is designed for graduate students, researchers, and professionals interested in understanding the algorithmic and mathematical ideas behind routing in computer networks. It is suitable for advanced undergraduate students, graduate students, and researchers in the area of network algorithms.

DE URBAN DECISION ROOM

IOS Press "First of all this book is intended to give the reader a simple introduction to the UDR system in definitions and diagrams. Second, it demonstrates the model-based construction of the system in terms of urban planning. Third, it focuses on the planning methodological function of the system in design and decision-making activities which occur

in the process of urban development."--BOOK JACKET.

NATURE-INSPIRED ALGORITHMS AND APPLIED OPTIMIZATION

[Springer](#) This book reviews the state-of-the-art developments in nature-inspired algorithms and their applications in various disciplines, ranging from feature selection and engineering design optimization to scheduling and vehicle routing. It introduces each algorithm and its implementation with case studies as well as extensive literature reviews, and also includes self-contained chapters featuring theoretical analyses, such as convergence analysis and no-free-lunch theorems so as to provide insights into the current nature-inspired optimization algorithms. Topics include ant colony optimization, the bat algorithm, B-spline curve fitting, cuckoo search, feature selection, economic load dispatch, the firefly algorithm, the flower pollination algorithm, knapsack problem, octonian and quaternion representations, particle swarm optimization, scheduling, wireless networks, vehicle routing with time windows, and maximally different alternatives. This timely book serves as a practical guide and reference resource for students, researchers and professionals.

THE FUTURE OF CROSS-BORDER INSOLVENCY

OVERCOMING BIASES AND CLOSING GAPS

[Oxford University Press](#) A fresh and insightful guide to post-financial crisis cross-border insolvency, this book interrogates the current regime and sets out a pattern to improve its future. In recent decades, and especially since the global financial crisis, a number of important initiatives have focused on developing effective solutions for managing the insolvency of multinational enterprises and financial institutions. Irit Mevorach here takes stock of the varying success of previous policy, and identifies the gaps and biases that could be bridged by a new approach.

WOMEN IN INDUSTRIAL AND SYSTEMS ENGINEERING

KEY ADVANCES AND PERSPECTIVES ON EMERGING TOPICS

[Springer Nature](#) This book presents a diversity of innovative and impactful research in the field of industrial and systems engineering (ISE) led by women investigators. After a Foreword by Margaret L. Brandeau, an eminent woman scholar in the field, the book is divided into the following sections: Analytics, Education, Health, Logistics, and Production. Also included is a comprehensive biography on the historic luminary of industrial engineering, Lillian Moeller Gilbreth. Each chapter presents an opportunity to learn about the impact of the field of industrial and systems engineering and women's important contributions to it. Topics range from big data analysis, to improving cancer treatment, to sustainability in product design, to teamwork in engineering education. A total of 24 topics touch on many of the challenges facing the world today and these solutions by women researchers are valuable for their technical innovation and excellence and their non-traditional perspective. Found within each author's biography are their motivations for entering the field and how they view their contributions, providing inspiration and guidance to those entering industrial engineering.

METHODOLOGICAL AND BIOSTATISTICAL FOUNDATIONS OF CLINICAL NEUROPSYCHOLOGY AND MEDICAL AND HEALTH DISCIPLINES

2ND EDITION

[CRC Press](#) The goal of the second edition is to introduce the advance undergraduate or graduate student and more seasoned research scientists in any of the allied health sciences to a wide array of methodological and biostatistical issues, as they occur in the context of both published and ongoing research. Some sixty-four articles published between 1992 and 2002 have been selected from the Journal of Clinical and Experimental Neuropsychology, The Clinical Neuropsychologist, and Child Neuropsychology and reproduced in this volume. While building upon a working knowledge and understanding of the basic univariate data analytic techniques and the research designs to which they apply, the approach to the more complex multivariate techniques is presented primarily at a conceptual and essentially non-mathematical level. While the issue of the complexity of some of the more recent and standard approaches to data analytic strategies, and their important role to specific research designs is important to convey, there remains an even more fundamental issue of whether the results of correctly applied data analytic strategies make any practical or clinical sense, above and beyond their having reached levels of "statistical significance". These critical issues are addressed throughout various commentaries that the editors make at appropriate points in the text. The volume will appeal to advanced undergraduate and graduate students as well as clinical neuropsychologists and research scientists in any of the allied health disciplines.

MULTI-OBJECTIVE SWARM INTELLIGENCE

THEORETICAL ADVANCES AND APPLICATIONS

[Springer](#) The aim of this book is to understand the state-of-the-art theoretical and practical advances of swarm intelligence. It comprises seven contemporary relevant chapters. In chapter 1, a review of Bacteria Foraging Optimization (BFO) techniques for both single and multiple criterions problem is presented. A survey on swarm intelligence for multiple and many objectives optimization is presented in chapter 2 along with a topical study on EEG signal analysis. Without compromising the extensive simulation study, a comparative study of variants of MOPSO is provided in chapter 3. Intractable problems like subset and job scheduling problems are discussed in chapters 4 and 7 by different hybrid swarm intelligence techniques. An attempt to study image enhancement by ant colony optimization is made in chapter 5. Finally, chapter 7 covers the aspect of uncertainty in data by hybrid PSO.

ANT COLONY OPTIMIZATION AND SWARM INTELLIGENCE

5TH INTERNATIONAL WORKSHOP, ANTS 2006, BRUSSELS, BELGIUM, SEPTEMBER 4-7, 2006, PROCEEDINGS

[Springer Science & Business Media](#) This book constitutes the refereed proceedings of the 5th International Workshop on Ant Colony Optimization and Swarm Intelligence, ANTS 2006, held in Brussels, Belgium, in September 2006. The 27 revised full papers, 23 revised short papers, and 12 extended abstracts presented were carefully reviewed and selected from 115 submissions.

SOFT COMPUTING AND INDUSTRY

RECENT APPLICATIONS

[Springer Science & Business Media](#) Soft computing embraces various methodologies for the development of intelligent systems that have been successfully applied to a large number of real-world problems. This text contains a collection of papers that were presented at the 6th On-line World Conference on Soft Computing in Industrial Applications that was held in September 2001. It provides a comprehensive overview of recent theoretical developments in soft computing as well as of successful industrial applications. It is divided into seven parts covering material on: keynote papers on various subjects ranging from computing with autopoietic systems to the effects of the Internet on education intelligent control classification, clustering and optimization image and signal processing agents, multimedia and Internet theoretical advances prediction, design and diagnosis. The book is aimed at researchers and professional engineers who develop and apply intelligent systems in computer engineering.

LARGE SCALE OPTIMIZATION IN SUPPLY CHAINS AND SMART MANUFACTURING

THEORY AND APPLICATIONS

[Springer Nature](#) In this book, theory of large scale optimization is introduced with case studies of real-world problems and applications of structured mathematical modeling. The large scale optimization methods are represented by various theories such as Benders' decomposition, logic-based Benders' decomposition, Lagrangian relaxation, Dantzig -Wolfe decomposition, multi-tree decomposition, Van Roy' cross decomposition and parallel decomposition for mathematical programs such as mixed integer nonlinear programming and stochastic programming. Case studies of large scale optimization in supply chain management, smart manufacturing, and Industry 4.0 are investigated with efficient implementation for real-time solutions. The features of case studies cover a wide range of fields including the Internet of things, advanced transportation systems, energy management, supply chain networks, service systems, operations management, risk management, and financial and sales management. Instructors, graduate students, researchers, and practitioners, would benefit from this book finding the applicability of large scale optimization in asynchronous parallel optimization, real-time distributed network, and optimizing the knowledge-based expert system for convex and non-convex problems.

INTEGER PROGRAMMING

FACETS, SUBADDITIVITY, AND DUALITY FOR GROUP AND SEMI-GROUP PROBLEMS

[SIAM](#) This monograph considers pure integer programming problems which concern packing, partitioning or covering. For this class of problems, an algorithmic framework using a duality approach is offered. Furthermore, the author proposes for the first time a general framework for both packing and covering problems characterizing the convex whole of integer solutions.

PORTUGAL SB07 SUSTAINABLE CONSTRUCTION, MATERIALS AND PRACTICES

CHALLENGE OF THE INDUSTRY FOR THE NEW MILLENNIUM

[IOS Press](#) The construction industry is a vibrant and active industry. The building sector is responsible for creating, modifying and improving the living environment of humanity. This volume presents solutions that facilitate and promote the adoption of policies, methods and tools to accelerate the movement towards a global sustainable built environment.

DEVELOPMENTAL PSYCHOPATHOLOGY, THEORY AND METHOD

[John Wiley & Sons](#) The seminal reference for the latest research in developmental psychopathology **Developmental Psychopathology** is a four-volume compendium of the most complete and current research on every aspect of the field. Volume One: Theory and Method focuses on the theoretical and empirical work that has contributed to dramatic advancements in understanding of child and adult development, including findings in the areas of genetics and neurobiology, as well as social and contextual factors. Now in its third edition, this comprehensive reference has been fully updated to reflect the current state of the field and its increasingly multilevel and interdisciplinary nature and the increasing importance of translational research. Contributions from expert researchers and clinicians provide insight into how multiple levels of analysis may influence individual differences, the continuity or discontinuity of patterns, and the pathways by which the same developmental outcomes may be achieved. Advances in developmental psychopathology have burgeoned since the 2006 publication of the second edition ten years ago, and keeping up on the latest findings in multiple avenues of investigation can be burdensome to the busy professional and researcher from psychology and related fields. This reference solves the problem by collecting the best of the best, as edited by Dante Cicchetti, a recognized leader in the field, into one place, with a logical organization designed for easy reference. Get up to date on the latest research from the field Explore new models, emerging theory, and innovative approaches Learn new technical analysis and research design methods Understand the impact of life stage on mental health The complexity of a field as diverse as developmental psychopathology deepens with each emerging theory and new area of study, as made obvious by the exciting findings coming out of institutions and clinics around the world. **Developmental Psychopathology Volume One: Theory and Method** brings these findings together into a cohesive, broad-reaching reference.

COMMUNICATIONS AND NETWORKING

11TH EAI INTERNATIONAL CONFERENCE, CHINACOM 2016, CHONGQING, CHINA, SEPTEMBER 24-26, 2016, PROCEEDINGS, PART I

[Springer](#) The two-volume set LNICST 209-210 constitutes the post-conference proceedings of the 11th EAI International Conference on Communications and Networking, ChinaCom 2016, held in Chongqing, China, in September 2016. The total of 107 contributions presented in these volumes are carefully reviewed and selected from 181 submissions. The book is organized in topical sections on MAC schemes, traffic algorithms and routing algorithms, security, coding schemes, relay systems, optical systems and networks, signal detection and estimation, energy harvesting systems, resource allocation schemes, network architecture and SDM, heterogeneous networks, IoT (Internet of Things), hardware design and implementation, mobility management, SDN and clouds, navigation, tracking and localization, future mobile networks.

PSYCHOTHERAPEUTIC CHANGE THROUGH THE GROUP PROCESS

[Routledge](#) **Psychotherapeutic Change through the Group Process** discusses the relation between the properties of groups and therapeutic change. The purpose is to develop a view of groups that accounts for the diversity, complexity, and fluidity of the group situation. The view examines the group in depth, attending not only to overt events, but also to covert aspects of specific situations. The work addresses manifest behaviors, underlying motivations; and the cognitive, rational aspects of the group. It explores the intense affect which may be generated under conditions of group interaction; not merely to the group or individual, but to the individual in the group and to the group as the context for personal

experience and change. The research presented here was initially explored in small group studies. Separate investigations considered the ways in which patients and therapists view group events, the nature of deviation, and the development of group standards. They consider factors associated with therapeutic improvement and therapeutic failure; and characteristic concerns of early sessions. These, plus several discussions of theory and methodology have been published separately. The authors' working procedure has been to study intensively a relatively small number of groups, relying upon careful observation of natural groups rather than upon laboratory experimentation. The overall effort has been to understand the processes of therapy groups in all their clinical richness and intricacy and yet to impose a scientific discipline and control on our analyses. This has meant a continuing attempt to develop appropriate analytic procedures so that clinical analyses can be as firmly rooted as possible in concrete data and reproducible methods. This book is a unique effort at the scientific grounding of social work practice.

HIGHER EDUCATION AND JOB EMPLOYABILITY

[Springer Nature](#) This book presents the most comprehensive discussion of emerging trends in higher education in the Asia Pacific, ranging from graduate attributes to integrated workplace learning, with an in-depth focus on work readiness, employability and career development. It draws on the relationship between graduate attributes and employability, as well as vocational training or internship programs. It offers theoretical and empirical analyses that institutions, decision-makers or academics can work on together to enhance job employability. This volume will also include issues such as development of emerging and employability skills, as well as directions for the changing nature in real-world settings. The book consists of contributions from experienced international authors, offering detailed insights for those who want a timely understanding of the latest trends in higher education.

ADVANCES IN LATENT VARIABLE MIXTURE MODELS

[IAP](#) The current volume, *Advances in Latent Variable Mixture Models*, contains chapters by all of the speakers who participated in the 2006 CILVR conference, providing not just a snapshot of the event, but more importantly chronicling the state of the art in latent variable mixture model research. The volume starts with an overview chapter by the CILVR conference keynote speaker, Bengt Muthén, offering a "lay of the land" for latent variable mixture models before the volume moves to more specific constellations of topics. Part I, *Multilevel and Longitudinal Systems*, deals with mixtures for data that are hierarchical in nature either due to the data's sampling structure or to the repetition of measures (of varied types) over time. Part II, *Models for Assessment and Diagnosis*, addresses scenarios for making judgments about individuals' state of knowledge or development, and about the instruments used for making such judgments. Finally, Part III, *Challenges in Model Evaluation*, focuses on some of the methodological issues associated with the selection of models most accurately representing the processes and populations under investigation. It should be stated that this volume is not intended to be a first exposure to latent variable methods. Readers lacking such foundational knowledge are encouraged to consult primary and/or secondary didactic resources in order to get the most from the chapters in this volume. Once armed with the basic understanding of latent variable methods, we believe readers will find this volume incredibly exciting.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

JOURNAL OF MANAGEMENT INFORMATION SYSTEMS

JMIS.

BIOINFORMATICS RESEARCH AND APPLICATIONS

THIRD INTERNATIONAL SYMPOSIUM, ISBRA 2007, ATLANTA, GA, USA, MAY 7-10, 2007, PROCEEDINGS

[Springer](#) This book constitutes the refereed proceedings of the Third International Symposium on Bioinformatics Research and Applications, ISBRA 2007, held in Atlanta, GA, USA in May 2007. The 55 revised full papers presented together with three invited talks cover a wide range of topics, including clustering and classification, gene expression analysis, gene networks, genome analysis, motif finding, pathways, protein structure prediction, protein domain interactions, phylogenetics, and software tools.

COMM

[Cengage Learning](#) Reflecting ongoing research into students' workflows and preferences, Sellnow/Verderber/Verderber's COMM6 offers multiple options to meet the needs of all generations and learning styles -- at an affordable price. Delivering comprehensive yet succinct coverage, it combines the latest research, best practices and timely, relevant examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

MULTI-OBJECTIVE OPTIMIZATION

TECHNIQUES AND APPLICATIONS IN CHEMICAL ENGINEERING

[World Scientific](#) Following a brief introduction and general review on the development of multi-objective optimization applications in chemical engineering since 2000, the book gives a description of selected multi-objective techniques and then goes on to discuss chemical engineering applications. These applications are from diverse areas within chemical engineering, and are presented in detail. Several exercises are included at the end of many chapters.

OPERATIONAL RESEARCH IN INDUSTRY

[Springer](#) Operational Research in Industry brings together the experience of an international group of practising OR consultants, researchers and academics in the applications of OR in Industry. The book gives practical examples of cross-industry management, covers many different industrial sectors and includes a variety of operations research tools including modelling, optimization and data mining.

FOUNDATIONS OF INFORMATION AND KNOWLEDGE SYSTEMS

SECOND INTERNATIONAL SYMPOSIUM, FOIKS 2002 SALZAU CASTLE, GERMANY, FEBRUARY 20-23, 2002 PROCEEDINGS

[Springer](#) This volume contains the papers presented at the "Second International Symposium on Foundations of Information and Knowledge Systems" (FoIKS 2002), which was held in Schloß Salzau, Germany from February 20th to 23rd, 2002. FoIKS is a biennial event focusing on theoretical foundations of information and knowledge systems. It aims to bring together researchers working on the theoretical foundations of information and knowledge systems and to attract researchers working in mathematical fields such as discrete mathematics, combinatorics, logics, and finite model theory who are interested in applying their theories to research on database and knowledge base theory. FoIKS took up the tradition of the conference series "Mathematical Fundamentals of Database Systems" (MFDBS) which enabled East-West collaboration in the field of database theory. The first FoIKS symposium was held in Burg, Spreewald (Germany) in 2000. Former MFDBS conferences were held in Dresden (Germany) in 1987, Visegrád (Hungary) in 1989, and in Rostock (Germany) in 1991. Proceedings of these previous events were published by Springer-Verlag as volumes 305, 364, 495, and 1762 of the LNCS series. In addition the FoIKS symposium is intended to be a forum for intensive discussions. For this reason the time slot of long and short contributions is 60 and 30 minutes respectively, followed by 30 and 15 minutes for discussions, respectively. Furthermore, participants are asked in advance to prepare as correspondents to a contribution of another author. There are also special sessions for the presentation and discussion of open research problems.

ORGANIZATIONAL BEHAVIOR AND HUMANS DECISION PROCESSES

THE GREEN BOOK

APPRAISAL AND EVALUATION IN CENTRAL GOVERNMENT : TREASURY GUIDANCE

[Stationery Office](#) This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.