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Grey Information Theory And Practical Applications Advanced Information And Knowledge Processing

Stanislaw Sieniutycz, Jacek Jezowski



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Grey Information Sifeng Liu, Yi Lin, 2006-03-08 Rapid formation and development of new theories of systems science have become an important part of modern science and technology. For ample since the 1940s there have appeared systems theory, information theory, fuzzy mathematics, cybernetics, dissipative structures, synergetics, catastrophe theory, chaos theory, bifurcations, ultra-circulations, dynamics and many other systems theories. Grey systems theory is also one of such systems theories that appeared initially in the 1980s. When the research of systems science and the method and technology of systems engineering are applied in various traditional disciplines such as management science, decision science and various scientific disciplines, a whole new group of new results and breakthroughs are obtained. Such a historical background has provided the environment and soil for grey systems theory to form and to develop rapidly in the past 20 plus years. More specially in 1982 Professor Deng Ju Long published the first research paper in the area of grey systems in the international journal entitled *Systems and Control Letters* published by North Holland Co. His paper was titled *Control Problems of Grey Systems*. The publication of this paper signalled the birth of grey systems theory after many years of effective research of the founding father. This new theory soon caught the attention of the international academic community and practitioners of science. Many well-known scholars such as Chinese academicians Qian Xueshen, Song Jian and Zhang Zhongjun, Professor Roger W.

Grey Systems Theory in Business Management Moses Olabhele Esangbedo, Jianwu Xue, 2025-01-23 This book is dedicated to addressing the central challenge of making informed business decisions within an environment characterized by uncertainty, employing Multiple Criteria Decision Making (MCDM) methodologies. Chapter 1 provides an overview of the related concepts of grey systems theory. Chapter 2 proposes evaluation criteria for five major themes including human resource, information systems and contractor selection problems. Chapters 3-6 present four improved grey hybrid weighting methods: the grey rank order centroid method, the grey regulatory focus theory method, the grey step-wise weight analysis ratio evaluation and the grey point allocation weighting method. Chapters 7-10 introduce four improved hybrid grey evaluation methods: the grey weighted sum model, grey relational analysis, the grey regime method and the grey integer linear programming method. Chapters 11 and 12 discuss additional grey decision making methods and conclusions are drawn along with future prospects.

Energy Optimization in Process Systems Stanislaw Sieniutycz, Jacek Jezowski, 2009-05-06 Despite the vast research on energy optimization and process integration, there has to date been no synthesis linking these together. This book fills the gap, presenting optimization and integration in energy and process engineering. The content is based on the current literature and includes novel approaches developed by the authors. Various thermal and chemical systems, heat and mass exchangers, thermal and water networks, energy converters, recovery units, solar collectors and separators are considered. Thermodynamics, kinetics and economics are used to formulate and solve problems with constraints on process rates, equipment size, environmental parameters and costs. Comprehensive coverage of dynamic optimization of energy

conversion systems and separation units is provided along with suitable computational algorithms for deterministic and stochastic optimization approaches based on nonlinear programming dynamic programming variational calculus Hamilton Jacobi Bellman theory Pontryagin's maximum principles and special methods of process integration Integration of heat energy and process water within a total site is shown to be a significant factor reducing production costs in particular costs of utilities for the chemical industry This integration involves systematic design and optimization of heat exchangers and water networks HEN and WN After presenting basic insight based Pinch Technology systematic optimization based sequential and simultaneous approaches to design HEN and WN are described Special consideration is given to the HEN design problem targeting stage in view of its importance at various levels of system design Selected advanced methods for HEN synthesis and retrofit are presented For WN design a novel approach based on stochastic optimization is described that accounts for both grassroot and revamp design scenarios Presents a unique synthesis of energy optimization and process integration that applies scientific information from thermodynamics kinetics and systems theory Discusses engineering applications including power generation resource upgrading radiation conversion and chemical transformation in static and dynamic systems Clarifies how to identify thermal and chemical constraints and incorporate them into optimization models and solutions

Big Data and Networks Technologies Yousef Farhaoui, 2019-07-17 This book reviews the state of the art in big data analysis and networks technologies It addresses a range of issues that pertain to signal processing probability models machine learning data mining databases data engineering pattern recognition visualization predictive analytics data warehousing data compression computer programming smart cities networks technologies etc Data is becoming an increasingly decisive resource in modern societies economies and governmental organizations In turn data science inspires novel techniques and theories drawn from mathematics statistics information theory computer science and the social sciences All papers presented here are the product of extensive field research involving applications and techniques related to data analysis in general and to big data and networks technologies in particular Given its scope the book will appeal to advanced undergraduate and graduate students postdoctoral researchers lecturers and industrial researchers as well general readers interested in big data analysis and networks technologies

Complexity and Complex Thermo-Economic Systems Stanislaw Sieniutycz, 2019-11-24 *Complexity and Complex Thermo-economic Systems* describes the properties of complexity and complex thermo economic systems as the consequence of formulations definitions tools solutions and results consistent with the best performance of a system Applying to complex systems contemporary advanced techniques such as static optimization optimal control and neural networks this book treats the systems theory as a science of general laws for functional integrities It also provides a platform for the discussion of various definitions of complexity complex hierarchical structures self organization examples special references and historical issues This book is a valuable reference for scientists engineers and graduated students in chemical mechanical and environmental engineering as well as those in physics ecology

and biology helping them better understand the complex thermodynamic systems and enhance their technical skills in research Provides a lucid presentation of the dynamical properties of thermoeconomic systems Includes original graphical material that illustrates the properties of complex systems Written by a first class expert in the field of advanced methods in thermodynamics

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Statistical Methods for QTL Mapping Zehua Chen, 2013-11-01 While numerous advanced statistical approaches have recently been developed for quantitative trait loci QTL mapping the methods are scattered throughout the literature *Statistical Methods for QTL Mapping* brings together many recent statistical techniques that address the data complexity of QTL mapping After introducing basic genetics topics and statistical principles the author discusses the principles of quantitative genetics general statistical issues of QTL mapping commonly used one dimensional QTL mapping approaches and multiple interval mapping methods He then explains how to use a feature selection approach to tackle a QTL mapping problem with dense markers The book also provides comprehensive coverage of Bayesian models and MCMC algorithms and describes methods for multi trait QTL mapping and eQTL mapping including meta trait methods and multivariate sequential procedures This book emphasizes the modern statistical methodology for QTL mapping as well as the statistical issues that arise during this process It gives the necessary biological background for statisticians without training in genetics and likewise covers statistical thinking and principles for geneticists Written primarily for geneticists and statisticians specializing in QTL mapping the book can also be used as a supplement in graduate courses or for self study by PhD students working on QTL mapping projects

Applications of Statistics and Probability in Civil Engineering Michael Faber, Jochen Koehler, Kazuyoshi Nishijima, 2011-07-15 Under the pressure of harsh environmental conditions and

natural hazards large parts of the world population are struggling to maintain their livelihoods Population growth increasing land utilization and shrinking natural resources have led to an increasing demand of improved efficiency of existing technologies and the development of new ones A

Energy Optimization in Process Systems and Fuel Cells Stanislaw Sieniutycz, Jacek Jezowski, 2018-05-16 Energy Optimization in Process Systems and Fuel Cells Third Edition covers the optimization and integration of energy systems with a particular focus on fuel cell technology With rising energy prices imminent energy shortages and the increasing environmental impacts of energy production energy optimization and systems integration is critically important The book applies thermodynamics kinetics and economics to study the effect of equipment size environmental parameters and economic factors on optimal power production and heat integration Author Stanislaw Sieniutycz highly recognized for his expertise and teaching shows how costs can be substantially reduced particularly in utilities common in the chemical industry This third edition contains substantial revisions and modifications with new material on catalytic reactors sorption systems sorbent or catalyst regenerators dryers and more Presents a unified approach to the optimization and integration of energy systems Includes a large number of examples treating dynamical systems Provides exposition showing the power of thermodynamics Contains a large number of maximum power analyses and their extensions

Computational Intelligence Paradigms L. C. Jain, 2008-06-12 This book features research on the innovative applications of advanced computational intelligence paradigms Coverage includes architectures of computational intelligence paradigms knowledge discovery pattern classification and gene linkage analysis

American Book Publishing Record, 2005

Intelligent Systems and Technologies Junzo Watada, 2009-06-17 Intelligent systems and technologies are increasing finding their ways in our daily lives This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems A Fuzzy Density Analysis of Subgroups by means of DNA Oligonucleotides Evolution of Cooperating Classification Rules with an Archiving Strategy to Underpin Collaboration Designing Agents with Dynamic Capability Localized versus Locality Preserving Representation Methods in Face Recognition Tasks Invariance Properties of Recurrent Neural Networks Solving Bioinformatics Problems by Soft Computing Techniques Transforming an Interactive Expert Code into a Statefull Service and a Multicoreenabled System Ro WordNet with Paradigmatic Morphology and Subjectivity Mark up Special Cases of Relative Object Qualification using the AMONG Operator Effective Speaker Tracking Strategies for Multi party Human Computer Dialogue The Fuzzy Interpolative Control for Passive Greenhouses GPS safety system for airplanes 3D Collaborative Interfaces for E learning Open Projects in Contemporary E Learning Software Platform for Archaeological Patrimony Inventory and Management The book is directed to the graduate students researchers professors and the practitioner of intelligent systems

The Handbook On Reasoning-based Intelligent Systems Kazumi Nakamatsu, Lakhmi C Jain, 2013-01-18 This book consists of various contributions in conjunction with the keywords reasoning and intelligent systems which widely covers theoretical to practical

aspects of intelligent systems Therefore it is suitable for researchers or graduate students who want to study intelligent systems generally

Recent Advances in Decision Making Elisabeth Rakus-Andersson, Ronald R. Yager, Nikhil Ichalkaranje, 2009-08-04 Intelligent paradigms are increasingly finding their ways in the design and development of decision support systems This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems in decision making A new method of ranking intuitionistic fuzzy alternatives Fuzzy rule base model identification by bacterial memetic algorithms Discovering associations with uncertainty from large databases Dempster Shafer structures monotonic set measures and decision making Interpretable decision making models A general methodology for managerial decision making Supporting decision making via verbalization of data analysis results using linguistic data summaries Computational intelligence in medical decisions making This book is directed to the researchers graduate students professors decision makers and to those who are interested to investigate intelligent paradigms in decision making

Advanced Multiresponse Process Optimisation Tatjana V. Šibalića, Vidosav D. Majstorović, 2015-07-25 This book presents an intelligent integrated problem independent method for multiresponse process optimization In contrast to traditional approaches the idea of this method is to provide a unique model for the optimization of various processes without imposition of assumptions relating to the type of process the type and number of process parameters and responses or interdependences among them The presented method for experimental design of processes with multiple correlated responses is composed of three modules an expert system that selects the experimental plan based on the orthogonal arrays the factor effects approach which performs processing of experimental data based on Taguchi's quality loss function and multivariate statistical methods and process modeling and optimization based on artificial neural networks and metaheuristic optimization algorithms The implementation is demonstrated using four case studies relating to high tech industries and advanced non conventional processes

Intelligent Autonomous Systems Dilip Kumar Pratihara, 2010-02-24 This research book contains a sample of most recent research in the area of intelligent autonomous systems The contributions include General aspects of intelligent autonomous systems Design of intelligent autonomous robots Biped robots Robot for stair case navigation Ensemble learning for multi source information fusion Intelligent autonomous systems in psychiatry Condition monitoring of internal combustion engine Security management of an enterprise network High dimensional neural nets and applications This book is directed to engineers scientists professor and the undergraduate postgraduate students who wish to explore this field further

Evolution of the Web in Artificial Intelligence Environments Richi Nayak, N. Ichalkaranje, 2008-05-30 The Web has revolutionized the way we seek information on all aspects of education entertainment business health and so on The Web has evolved into a publishing medium global electronic market and increasingly a platform for conducting electronic commerce A part of this success can be attributed to the tremendous advances made in the Artificial Intelligence field The popularity of the Web has opened many opportunities to develop smart Web based

systems using artificial intelligence techniques There exist numerous Web technology and applications that can benefit with the application of artificial intelligence techniques It is not possible to cover them all in one book with a required degree of quality depth and width We present this book to discuss some important Web developments by using artificial intelligence techniques in the areas of Web personalisation semantic Web and Web services The primary readers of this book are undergraduate postgraduate students researchers and practitioners in information technology and computer science related areas The success of this book is largely due to the collective efforts of a great team consisting of authors and reviewers We are grateful to them for their vision and wonderful support The final quality of selected papers reflects their efforts Finally we would like to thank the Queensland University of Technology Brisbane Australia and University of South Australia Adelaide Australia for providing us the resources and time to undertake this task We extend our sincere thanks to Scientific Publishing Services Pvt Ltd for the editorial support Practical Grey-box Process Identification Torsten P.

Bohlin,2006-09-07 This book reviews the theoretical fundamentals of grey box identification and puts the spotlight on MoCaVa a MATLAB compatible software tool for facilitating the procedure of effective grey box identification It demonstrates the application of MoCaVa using two case studies drawn from the paper and steel industries In addition the book answers common questions which will help in building accurate models for systems with unknown inputs *The British National*

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Ozawa,2018-12-03 The seven volume set of LNCS 11301 11307 constitutes the proceedings of the 25th International Conference on Neural Information Processing ICONIP 2018 held in Siem Reap Cambodia in December 2018 The 401 full papers presented were carefully reviewed and selected from 575 submissions The papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains The first volume LNCS 11301 is organized in topical sections on deep neural networks convolutional neural networks recurrent neural networks and spiking neural networks

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