

Sifeng Liu  
Yi Lin

# Grey Information

Theory and Practical Applications

 Springer

# Grey Information Theory And Practical Applications

**Guanglu Sun, Shuai Liu**



## **Grey Information Theory And Practical Applications:**

*Grey Information* Sifeng Liu, Yi Lin, 2010-10-22 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 Analysis** Sifeng Liu, Yingjie Yang, Jeffrey Yi-Lin Forrest, 2022-12-08 The book covers up to date theoretical and applied advances in grey systems theory from across the world and vividly presents the reader with the overall picture of this new theory and its frontier research. Many of the concepts, models and methods in the book are original by the authors including simplified form of grey number, general grey number and the operations of grey numbers, the axiomatic system of buffer operators and a series of weakening and strengthening operators, a series of grey relational analysis models including grey absolute, relative, synthetic, similarity, closeness, negative and three dimension degree etc, grey fixed weight clustering model, grey evaluation models based on center point and end point, mixed possibility functions, original difference grey model, ODGM, even difference grey model, EDGM, discrete grey model, DGM, fractional grey models, self memory grey models, multi attribute intelligent grey target decision models, weight vector group with kernel and the weighted comprehensive clustering coefficient vector and spectrum analysis of sequence operators etc. This book will be appropriate as a reference and or professional book for courses of grey system theory for graduate students or high level undergraduate students majoring in areas of science, technology, agriculture, medicine, astronomy, earth science, economics and management. It can also be utilized by researchers and practitioners in research institutions, business entities and government agencies. Grey Systems Sifeng Liu, Jeffrey Yi Lin Forrest, 2010-12-09 Due to inherent limitations in human sensing organs, most data collected for various purposes contain uncertainties. Even at the rare occasions when accurate data are available, the truthful predictions derived on the data tend to create chaotic consequences. So to effectively process and make sense out of available data we need

methods to deal with uncertainty inherently existing inside the data The intent of this monograph is to explore the fundamental theory methods and techniques of practical application of grey systems theory initiated by Professor Deng Julong in 1982 This volume presents most of the recent advances of the theory accomplished by scholars from around the world From studying this book the reader will not only acquire an overall knowledge of this new theory but also be able to follow the most current research activities All examples presented are based on practical applications of the theory when urgent real life problems had to be addressed Last but not the least this book concludes with three appendices The first one compares grey systems theory and interval analysis while revealing the fact that interval analysis is a part of grey mathematics The second appendix presents an array of different approaches of studying uncertainties And the last appendix shows how uncertainties appear using general systems approach

Emerging Studies and Applications of Grey Systems Yingjie Yang, Sifeng Liu, 2023-02-04 This book aims to provide a practical guide by a set of real world applications of grey systems to social networks energy management transportation natural disaster management etc As an emerging subject on data analysis and uncertainty modelling the theory of grey systems and its applications have seen significant progress in recent years However researchers are still challenged with difficulties in differentiating grey systems from other similar models and a concise and practical guide for their real world applications This is especially true for researchers in Europe and North American This book may provide the answer for that This book is a result of work within the Leverhulme Trust International Research Network on Grey Systems and its Applications Readers may regard the book as valuable reference in the related fields

**Advances in Grey Systems Research** Sifeng Liu, Jeffrey Yi-Lin Forrest, 2010-06-28 This book contains contributions by some of the leading researchers in the area of grey systems theory and applications All the papers included in this volume are selected from the contributions physically presented at the 2009 IEEE International Conference on Grey Systems and Intelligent Services November 11 12 2009 Nanjing Jiangsu People s Republic of China This event was jointly sponsored by IEEE Systems Man and Cybernetics Society Natural Science Foundation of China and Grey Systems Society of China Additionally Nanjing University of Aeronautics and Astronautics also invested heavily in this event with its direct and indirect financial and administrative supports The conference aimed at bringing together all scholars and experts in the fields of grey systems and intelligent services from around the world to share their cutting edge research results exchange innovative ideas promote mutual understanding and seek potential opportunities for collaboration The conference program committee received 1054 full paper submissions from 16 countries and geographical regions Nine hundred sixty four papers were submitted for regular sessions and 90 papers were tunnelled directly for special topic sessions All the submitted papers including those aiming at special topic sessions were rigorously reviewed by at least 3 reviewers Based on the reviewers reports 251 papers were accepted for oral presentations while 99 accepted for poster presentations In other words only slightly over 33% of the submitted papers were accepted by this conference The rate of acceptance was lower than one third

of the total submissions      Recent Applications of Financial Risk Modelling and Portfolio Management Škrinjari?, Tihana, ižmešija, Mirjana, Christiansen, Bryan, 2020-09-25 In today's financial market portfolio and risk management are facing an array of challenges This is due to increasing levels of knowledge and data that are being made available that have caused a multitude of different investment models to be explored and implemented Professionals and researchers in this field are in need of up to date research that analyzes these contemporary models of practice and keeps pace with the advancements being made within financial risk modelling and portfolio control *Recent Applications of Financial Risk Modelling and Portfolio Management* is a pivotal reference source that provides vital research on the use of modern data analysis as well as quantitative methods for developing successful portfolio and risk management techniques While highlighting topics such as credit scoring investment strategies and budgeting this publication explores diverse models for achieving investment goals as well as improving upon traditional financial modelling methods This book is ideally designed for researchers financial analysts executives practitioners policymakers academicians and students seeking current research on contemporary risk management strategies in the financial sector      *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      **Advances in Computational Collective Intelligence** Marcin Hernes, Krystian Wojtkiewicz, Edward Szczerbicki, 2020-11-20 This book constitutes refereed proceedings of the 12th International Conference on International Conference on Computational Collective Intelligence ICCCI 2020 held in Da Nang Vietnam in November December 2020 Due to the the COVID 19 pandemic the conference was held online The 68 papers were thoroughly reviewed and selected from 314 submissions The papers are organized according to the following topical sections data mining and machine learning deep learning and applications for industry 4.0 recommender systems computer vision techniques decision support and control systems intelligent management information systems innovations in intelligent systems intelligent modeling and simulation approaches for games and real world systems experience enhanced intelligence to IoT data driven IoT for smart society applications of collective intelligence natural language processing low resource languages processing computational collective intelligence and natural language

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Correia, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, 2017-03-27 This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies WorldCIST 17 held between the 11st and 13th of April 2017 at Porto Santo Island Madeira Portugal WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges involved in modern Information Systems and Technologies research together with technological developments and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Ethics Computers Health Informatics Information Technologies in Education and Information Technologies in Radiocommunications      **Decision Support Systems in Agriculture, Food and the Environment: Trends,**

**Applications and Advances** Manos, Basil, Matsatsinis, Nikolaos, Paparrizos, Konstantinos, Papathanasiou, Jason, 2010-06-30 As national and international concern over sustainable resources becomes more prevalent the need for decision support systems DSS increases The applicable uses of a successful system can assist in the sustainability of resources as well as the efficiency and management of the agri environment industry Decision Support Systems in Agriculture Food and the

Environment Trends Applications and Advances presents the development of DSS for managing agricultural and environmental systems focusing on the exposition of innovative methodologies from web mobile systems to artificial intelligence and knowledge based DSS as well as their applications in every aspect from harvest planning to international food production and land management This book provides an in depth look into the growing importance of DSS in agriculture

**GREY DATA ANALYTICS FOR MANAGEMENT AND SOCIAL SCIENCES** RAJESH, R.,2025-04-14 This book covers details of various grey based models and methodologies and the practical applications of the same with specific focus on the management and the social sciences domains The step by step implementation aspects which is followed in this book help readers to implement the methodologies with ease Undergraduate and postgraduate students of business management and social sciences domains can be benefited through the practical and case based approach charted in the book Also the Excel based implementation aspects with screenshots of the calculations and the formulas along with the downloadable Excel files can help the users to replicate the results as given Apart from this the implementation aspects can assist them in advocating these methodologies to diverse research problems A wide variety of applications of the grey system based methods such as the grey relational analysis grey prediction grey clustering grey programming grey target decision making grey incidence analysis and other combined grey based models are elaborated and detailed in this book **KEY FEATURES** Several grey based models and methodologies are uncovered Practical and case based approach is followed Excel based implementation with demonstration can benefit readers Calculation sheets are made available and downloadable for users Specific focus to quantitative social sciences and management research **TARGET AUDIENCE** MBA Analytics MA MSc Statistics MA Sociology

**Financial Risk Management and Modeling** Constantin Zopounidis,Ramzi Benkraiem,Iordanis Kalaitzoglou,2021-09-13 Risk is the main source of uncertainty for investors debtholders corporate managers and other stakeholders For all these actors it is vital to focus on identifying and managing risk before making decisions The success of their businesses depends on the relevance of their decisions and consequently on their ability to manage and deal with the different types of risk Accordingly the main objective of this book is to promote scientific research in the different areas of risk management aiming at being transversal and dealing with different aspects of risk management related to corporate finance as well as market finance Thus this book should provide useful insights for academics as well as professionals to better understand and assess the different types of risk

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assessment strategies for the improvement of these industries Featuring a range of topics such as fuzzy logic ecosystem services and metaheuristics this book is ideal for managers service evaluators marketers academicians business professionals researchers practitioners and students

**Software Engineering and Knowledge Engineering: Theory and Practice** Yanwen Wu, 2012-01-15 The volume includes a set of selected papers extended and revised from the I2009 Pacific Asia Conference on Knowledge Engineering and Software Engineering KESE 2009 was held on December 19 20 2009 Shenzhen China Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields 140 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Prof Yanwen Wu On behalf of this volume we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering

*Advances in Social and Occupational Ergonomics* Richard H. M. Goossens, 2018-06-23 This book reports on cutting edge research on social and occupational ergonomics presenting innovative contributions to the optimization of sociotechnical management systems related to organizational policy and logistical issues It discusses timely topics related to communication crew resource management work design participatory design as well as teamwork community ergonomics cooperative work and warning systems and explores new work paradigms organizational cultures virtual organizations telework and quality management The book also describes pioneering infrastructures implemented for different purposes such as urban health and enterprise and examines the changing role of automated systems offering innovative solutions that address the needs of particular populations Based on the AHFE 2018 International Conference on Social and Occupational Ergonomics held in Orlando Florida USA on July 21 25 2018 the book provides readers with a comprehensive overview of the current challenges in both organizational and occupational ergonomics highlighting key connections between them and underlining the importance of emotional factors in influencing human performance

**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. *Intelligent and Fuzzy Techniques in Aviation 4.0* Cengiz Kahraman, Serhat Aydın, 2021-08-26. This book offers a comprehensive reference guide for the theory and practice of intelligent and fuzzy techniques in Aviation 4.0. It provides readers with the necessary intelligent and fuzzy tools for Aviation 4.0 when incomplete, vague, and imprecise information or insufficient data exist in hand where classical modeling approaches cannot be applied. The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts including baggage services, catering services, check-in and boarding services, maintenance, and cargo management security, etc. To foster reader comprehension, all chapters include relevant numerical examples or case studies. Taken together, they form an excellent reference guide for researchers, lecturers, and postgraduate students pursuing research on Aviation 4.0. Moreover, by extending all the main aspects of Aviation 4.0 to its intelligent and fuzzy counterparts, the book presents a dynamic snapshot of the field that is expected to stimulate new directions, ideas, and developments.

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