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Mathematics Of The Decision Science Volume

Florentin Smarandache



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Mathematics of the Decision Sciences George Bernard Dantzig, Arthur F. Veinott, 1968

Foundations of Software Science and Computation Structures Orna Kupferman, Pawel Sobocinski, 2023-04-20 This open access book constitutes the proceedings of the 26th International Conference on Foundations of Software Science and Computational Structures FOSSACS 2023 which was held during April 22-27 2023 in Paris France as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2023 The 26 regular papers presented in this volume were carefully reviewed and selected from 85 submissions They deal with research on theories and methods to support the analysis integration synthesis transformation and verification of programs and software systems

Mathematics of Intelligent Computing and Data Science P. B. Vinod Kumar, Patrizio Frosini, P.B. Ramkumar, R. Binu, 2025-03-29 This book comprises carefully selected contributions derived from plenary and invited talks delivered during the International Conference on Mathematics of Intelligent Computing and Data Science ICMICDS 22 held at the Rajagiri School of Engineering and Technology Cochin India from 15 to 17 September 2022 The volume encompasses a diverse spectrum of subjects including but not limited to artificial intelligence machine learning data analysis and optimization Acting as a valuable forum this volume offers a pivotal platform for both researchers and practitioners to showcase their scholarly endeavors It facilitates vibrant discussions on the latest advancements and serves as an avenue for the exploration of novel research trajectories within the realm of intelligent computing and data science

Collected Papers. Volume XIII Florentin Smarandache, 2022-09-15 This thirteenth volume of Collected Papers is an eclectic tome of 88 papers in various fields of sciences such as astronomy biology calculus economics education and administration game theory geometry graph theory information fusion decision making instantaneous physics quantum physics neutrosophic logic and set non Euclidean geometry number theory paradoxes philosophy of science scientific research methods statistics and others structured in 17 chapters Neutrosophic Theory and Applications Neutrosophic Algebra Fuzzy Soft Sets Neutrosophic Sets Hypersoft Sets Neutrosophic Semigroups Neutrosophic Graphs Superhypergraphs Plithogeny Information Fusion Statistics Decision Making Extenics Instantaneous Physics Paradoxism Mathematica Miscellanea comprising 965 pages published between 2005-2022 in different scientific journals by the author alone or in collaboration with the following 110 co authors alphabetically ordered from 26 countries Abdullah Gamal Sania Afzal Firoz Ahmad Muhammad Akram Sheriful Alam Ali Hamza Ali H M Al Obaidi Madeleine Al Tahan Assia Bakali Atiqe Ur Rahman Sukanto Bhattacharya Bilal Hadjadji Robert N Boyd Willem K M Brauers Umit Cali Youcef Chibani Victor Christianto Chunxin Bo Shyamal Dalapati Mario Dalc n Arup Kumar Das Elham Davneshvar Bijan Davvaz Irfan Deli Muhammet Deveci Mamouni Dhar R Dhavaseelan Balasubramanian Elavarasan Sara Farooq Haipeng Wang Ugur Halden Le Hoang Son Hongnian Yu Qays Hatem Imran Mayas Ismail Saeid Jafari Jun Ye Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Abdullah Karg n Vasilios N Katsikis Nour Eldeen M Khalifa Madad Khan M Khoshnevisan Tapan Kumar Roy Pinaki

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Handbook of Industrial Engineering Gavriel Salvendy, 2001-05-25 Unrivaled coverage of a broad spectrum of industrial engineering concepts and applications The Handbook of Industrial Engineering Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity quality and competitiveness and improving the quality of working life in manufacturing and service industries This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications technology performance improvement management management planning and design control and decision making methods Completely updated and expanded to reflect nearly a decade of important developments in the field this Third Edition features a wealth of new information on project management supply chain management and logistics and systems related to service industries Other important features of this essential reference include More than 1 000 helpful tables graphs figures and formulas Step by step descriptions of hundreds of problem solving methodologies Hundreds of clear easy to follow application examples Contributions from 176 accomplished international professionals with diverse training and affiliations More than 4 000 citations for further reading The Handbook of Industrial Engineering Third Edition is an immensely useful one stop resource for industrial engineers and technical support personnel in corporations of any size continuous process and discrete part manufacturing industries and all types of service industries from healthcare to hospitality from retailing to finance Of related interest HANDBOOK OF HUMAN FACTORS AND ERGONOMICS Second Edition Edited by Gavriel Salvendy 0 471 11690 4 2 165 pages 60 chapters A comprehensive guide that contains practical knowledge and technical background on virtually all aspects of physical cognitive and social ergonomics As such it can be a valuable source of information for any individual or organization committed to providing competitive high quality products and safe productive work environments John F Smith Jr Chairman of the Board Chief Executive Officer and President General Motors Corporation From the Foreword

Stochastic Economics Gerhard Tintner, Jati K. Sengupta, 2014-05-10 Stochastic Economics Stochastic Processes Control and Programming presents some aspects of economics from a stochastic or probabilistic point of view The application of

stochastic processes to the theory of economic development stochastic control theory and various aspects of stochastic programming is discussed Comprised of four chapters this book begins with a short survey of the stochastic view in economics followed by a discussion on discrete and continuous stochastic models of economic development The next chapter focuses on methods of stochastic control and their application to dynamic economic models with emphasis on those aspects connected especially with the theory of quantitative economic policy Some basic operational problems of applying stochastic control particularly in economic systems and organizations for problems such as dynamic resource allocation growth planning and economic coordination are considered The last chapter is devoted to stochastic programming paying particular attention to the decision rule theory of operations research under the chance constrained model and a method of incorporating reliability measures into a systems reliability model This book will be of interest to economists statisticians applied mathematicians operations researchers and systems engineers

Data Science in Engineering, Volume 9 Ramin Madarshahian, Francois Hemez, 2025-08-07 Data Science and Engineering Volume 9 Proceedings of the 39th IMAC A Conference and Exposition on Structural Dynamics 2021 the ninth volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Data Science in Engineering including papers on Data Science in Engineering Applications Engineering Mathematics Computational Methods in Engineering

Collected Papers. Volume VII Florentin Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf

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artificial intelligence AI and machine learning ML techniques there is still much to be learned from a full scale exploration of these technologies in atomic layer deposition ALD This book provides in depth information regarding the application of ML based modeling techniques in thin film technology as a standalone approach and integrated with the classical simulation and modeling methods It is the first of its kind to present detailed information regarding approaches in ML based modeling optimization and prediction of the behaviors and characteristics of ALD for improved process quality control and discovery of new materials As such this book fills significant knowledge gaps in the existing resources as it provides extensive information on ML and its applications in film thin technology Offers an in depth overview of the fundamentals of thin film technology state of the art computational simulation approaches in ALD ML techniques algorithms applications and challenges Establishes the need for and significance of ML applications in ALD while introducing integration approaches for ML techniques with computation simulation approaches Explores the application of key techniques in ML such as predictive analysis classification techniques feature engineering image processing capability and microstructural analysis of deep learning algorithms and generative model benefits in ALD Helps readers gain a holistic understanding of the exciting applications of ML based solutions to ALD problems and apply them to real world issues Aimed at materials scientists and engineers this book fills significant knowledge gaps in existing resources as it provides extensive information on ML and its applications in film thin technology It also opens space for future intensive research and intriguing opportunities for ML enhanced ALD processes which scale from academic to industrial applications

Neutrosophic Systems with Applications (NSWA), Vol. 6, 2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-09-23 Papers on neutrosophic and plithogenic sets logics probabilities and statistics on NeutroAlgebra and AntiAlgebra NeutroGeometry and AntiGeometry SuperHyperAlgebra and Neutrosophic SuperHyperAlgebra etc

Research on Novel Correlation Coefficient of Neutrosophic Cubic Sets and Its Applications Huiling Xue, Minrong Yu, Chunfang Chen, Single valued neutrosophic cubic set is a good tool to solve the vague and uncertain problems because it contains more information The article first gives the correlation coefficient of single valued neutrosophic cubic sets Then a decision method is proposed and an application in pattern recognition is considered Finally examples are given to explain the feasibility of this method At the same time the comparative analysis shows the superiority of this method

Handbook of Computational Social Science, Volume 2 Uwe Engel, Anabel Quan-Haase, Sunny Liu, Lars Lyberg, 2021-11-10 The Handbook of Computational Social Science is a comprehensive reference source for scholars across multiple disciplines It outlines key debates in the field showcasing novel statistical modeling and machine learning methods and draws from specific case studies to demonstrate the opportunities and challenges in CSS approaches The Handbook is divided into two volumes written by outstanding internationally renowned scholars in the field This second volume focuses on foundations and advances in data science statistical modeling and machine learning It covers a range of key issues including the management of big data in terms of

record linkage streaming and missing data Machine learning agent based and statistical modeling as well as data quality in relation to digital trace and textual data as well as probability non probability and crowdsourced samples represent further foci The volume not only makes major contributions to the consolidation of this growing research field but also encourages growth into new directions With its broad coverage of perspectives theoretical methodological computational international scope and interdisciplinary approach this important resource is integral reading for advanced undergraduates postgraduates and researchers engaging with computational methods across the social sciences as well as those within the scientific and engineering sectors

On Pseudospherical Smarandache Curves in Minkowski 3-Space Esra Betul Koc Ozturk, Ufuk Ozturk, Kazim Ilarslan, Emilija Nešovic, In this paper we define nonnull and null pseudospherical Smarandache curves according to the Sabban frame of a spacelike curve lying on pseudosphere in Minkowski 3 space

Data Science and Interdisciplinary Research: Recent Trends and Applications Brojo Kishore Mishra, 2023-09-27 Data Science and Interdisciplinary Research Recent Trends and Applications is a compelling edited volume that offers a comprehensive exploration of the latest advancements in data science and interdisciplinary research Through a collection of 10 insightful chapters this book showcases diverse models of machine learning communications signal processing and data analysis illustrating their relevance in various fields

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Medical Diagnosis through Machine Learning Concludes with a chapter on breast cancer detection using machine learning concepts demonstrating the potential of AI driven diagnostics

Research on the topics of neutrosophic operations research Florentin Smarandache, Maissam Ahmad Jdid, 2023-08-10 In this volume we present a set of research that was published in cooperation with a number of

researchers and those interested in keeping pace with the great scientific development that our contemporary world is witnessing and one of its products was neutrosophic science which was founded by the American scientist and mathematical philosopher Florentin Smarandache in 1995 Through it we present a new vision for some research methods Operations research to the concepts of this science Restoration Methods Selection for Wood Components of Chinese Ancient Architectures Based on TODIM with Single-Valued Neutrosophic Sets Xiaolu Long,Lizhi Liu,Can Xiao,Pengfei Cheng,Chengxun Fu, The selection of restoration methods for ancient architectures is of great significance for the protection of human cultural heritage This paper proposes a novel restoration methods selection approach for wood components of Chinese ancient architectures in which a multicriteria group decision making MCGDM method with decision making information is in the form of singlevalued neutrosophic sets SNNSs Firstly it establishes an index system by comprehensively considering subjective and objective criteria In addition the best worst method BWM and the entropy weight method are combined to produce index weights Furthermore the TODIM method is utilized by the single valued neutrosophic sets to prioritize restoration methods Finally a specific case of wood component restoration is conducted to demonstrate the practicability of the proposed model e robustness and effectiveness of the proposed method is verified by sensitivity analysis and comparison analysis Information Technology and the Conduct of Research Institute of Medicine,National Academy of Engineering,National Academy of Sciences,Committee on Science, Engineering, and Public Policy,Panel on Information Technology and the Conduct of Research,1989-02-01 Computers and telecommunications have revolutionized the processes of scientific research How is this information technology being applied and what difficulties do scientists face in using information technology How can these difficulties be overcome Information Technology and the Conduct of Research answers these questions and presents a variety of helpful examples The recommendations address the problems scientists experience in trying to gain the most benefit from information technology in scientific engineering and clinical research

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