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Advances In Mathematics Scientific Journal

Arvind Dagur,Dhirendra Kumar Shukla,Nazarov Fayzullo Makhmadiyarovich,Akhatov Akmal Rustamovich,Jabborov Jamol Sindorovich

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Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities Pramanik, Sabyasachi,Sagayam, K. Martin,2023-02-17 A smart city utilizes ICT technologies to improve the working effectiveness share various data with the citizens and enhance political assistance and societal wellbeing The fundamental needs of a smart and sustainable city are utilizing smart technology for enhancing municipal activities expanding monetary development and improving citizens standards of living The Handbook of Research on Data Driven Mathematical Modeling in Smart Cities discusses new mathematical models in smart and sustainable cities using big data visualization tools in mathematical modeling machine learning based mathematical modeling and more It further delves into privacy and ethics in data analysis Covering topics such as deep learning optimization based data science and smart city automation this premier reference source is an excellent resource for mathematicians statisticians computer scientists civil engineers government officials students and educators of higher education librarians researchers and academicians   *Soft Computing in Inventory Management* Nita H. Shah,Mandeep Mittal,2021-08-21 This book presents a collection of mathematical models that deals with the real scenario in the industries The primary objective of this book is to explore various effective methods for inventory control and management using soft computing techniques Inventory control and management is a very tedious task faced by all the organizations in any sector of the economy It makes decisions for policies activities and procedures in order to make sure that the right amount of each item is held in stock at any time Many industries suffer from indiscipline while ordering and production mismatch It is essential to provide best ordering policy to control such kind of mismatch in the industries All the mathematical model solutions are provided with the help of various soft computing optimization techniques to determine optimal ordering policy This book is beneficial for practitioners educators and researchers It is also helpful for retailers managers for improving business functions and making more accurate and realistic decisions   *Neutrosophic Algebraic Structures and Their Applications* Florentin Smarandache,Memet Şahin,Derya Bakbak,Vakkas Uluçay,Abdullah Kargın ,2022-08-01 Neutrosophic theory and its applications have been expanding in all directions at an astonishing rate especially after of the introduction the journal entitled Neutrosophic Sets and Systems New theories techniques algorithms have been rapidly developed One of the most striking trends in the neutrosophic theory is the hybridization of neutrosophic set with other potential sets such as rough set bipolar set soft set hesitant fuzzy set etc The different hybrid structures such as rough neutrosophic set single valued neutrosophic rough set bipolar neutrosophic set single valued neutrosophic hesitant fuzzy set etc are proposed in the literature in a short period of time Neutrosophic set has been an important tool in the application of various areas such as data mining decision making e learning engineering medicine social science and some more   Neutrosophic Sets and Systems, Vol. 46, 2021 Florentin Smarandache,Mohamed Abdel-Basser,Said Broumi,2021-10-19 Papers on neutrosophic programming neutrosophic hypersoft set neutrosophic topological spaces NeutroAlgebra

NeutroGeometry AntiGeometry NeutroNearRings neutrosophic differential equations etc   Applications of New Technology in Operations and Supply Chain Management Taghipour, Atour,2024-08-26 The International Data Corporation IDC has unveiled a series of transformative predictions to reshape operations and supply chain management leading companies to re assess their processes Applications of New Technology in Operations and Supply Chain Management offers an in depth exploration of how emerging technologies are positioned to revolutionize the way businesses execute and coordinate their operations The book delves into the adoption of digital technologies the shift to cloud technology and the emergence of real time operational insights that can be accessed from anywhere For instance 2026 ushers in integrating digital tools for measuring carbon footprints and the increased use of robots in unconventional domains such as remote inspection and maintenance By 2027 augmented reality technology will take center stage reducing operator and field worker errors Furthermore remote operations embrace satellite based artificial intelligence or machine learning technologies revolutionizing data collection and analysis at the edge   **Computational Intelligence in Internet of Agricultural Things** M. G. Sumithra,Malathy Sathyamoorthy,M. Manikandan,Rajesh Kumar Dhanaraj,Mariya Ouaissa,2024-08-27 This book focuses on the integration of IoT and AI techniques to generate greater data driven solutions for the agriculture industry It also focuses on computational intelligence CI machine learning and AI techniques along with current applications obstacles and potential challenges and solutions for agricultural industries These technologies have the potential to curtail resource wastage and contribute to addressing the challenges of feeding the expanding global population This book acts as a resource to augment the reader s comprehension of the role of emerging IT technologies in the agricultural sector This book also covers key technologies and techniques such as AI ML and IoT in the development of smart agriculture and provides information on various types of smart farming technology platforms and machine learning algorithms with case studies based on real time problems   **Quantum Machine Learning** Pethuru Raj,Houbing Herbert Song,Dac-Nhuong Le,Narayan Vyas,2024-08-05 Quantum computing has shown a potential to tackle specific types of problems especially those involving a daunting number of variables at an exponentially faster rate compared to classical computers This volume focuses on quantum variants of machine learning algorithms such as quantum neural networks quantum reinforcement learning quantum principal component analysis quantum support vectors quantum Boltzmann machines and many more   **Kochi Journal of Mathematics** ,2015   **Artificial Intelligence and Information Technologies** Arvind Dagur,Dhirendra Kumar Shukla,Nazarov Fayzullo Makhmadiyarovich,Akhatov Akmal Rustamovich,Jabborov Jamol Sindorovich,2024-07-31 This book contains the proceedings of a non profit conference with the objective of providing a platform for academicians researchers scholars and students from various institutions universities and industries in India and abroad to exchange their research and innovative ideas in the field of Artificial Intelligence and information technologies It begins with exploring the research and innovation in the field of Artificial Intelligence and information technologies including secure transaction

monitoring real time assistance and security for advanced stage learners researchers and academicians has been presented It goes on to cover Broad knowledge and research trends about Artificial Intelligence and information technologies and their role in today s digital era Depiction of system model and architecture for clear picture of Artificial Intelligence in real life Discussion on the role of Artificial Intelligence in various real life problems such as banking healthcare navigation communication and security Explanation of the challenges and opportunities in Artificial Intelligence based healthcare education banking and related industries Recent information technologies and challenges in this new epoch This book will be beneficial to researchers academicians undergraduate students postgraduate students research scholars professionals technologists and entrepreneurs **Ulrich's International Periodicals Directory** Carolyn Farquhar Ulrich,1999

Ulrich's Periodicals Directory ,1989 **The American Mathematical Monthly** ,1900 Includes section Recent publications Transition to Advanced Mathematics Danilo R. Diedrichs,Stephen Lovett,2022-05-22 This unique and contemporary text not only offers an introduction to proofs with a view towards algebra and analysis a standard fare for a transition course but also presents practical skills for upper level mathematics coursework and exposes undergraduate students to the context and culture of contemporary mathematics The authors implement the practice recommended by the Committee on the Undergraduate Program in Mathematics CUPM curriculum guide that a modern mathematics program should include cognitive goals and offer a broad perspective of the discipline Part I offers An introduction to logic and set theory Proof methods as a vehicle leading to topics useful for analysis topology algebra and probability Many illustrated examples often drawing on what students already know that minimize conversation about doing proofs An appendix that provides an annotated rubric with feedback codes for assessing proof writing Part II presents the context and culture aspects of the transition experience including 21st century mathematics including the current mathematical culture vocations and careers History and philosophical issues in mathematics Approaching reading and learning from journal articles and other primary sources Mathematical writing and typesetting in LaTeX Together these Parts provide a complete introduction to modern mathematics both in content and practice Table of Contents Part I Introduction to Proofs Logic and Sets Arguments and Proofs Functions Properties of the Integers Counting and Combinatorial Arguments Relations Part II Culture History Reading and Writing Mathematical Culture Vocation and Careers History and Philosophy of Mathematics Reading and Researching Mathematics Writing and Presenting Mathematics Appendix A Rubric for Assessing Proofs Appendix B Index of Theorems and Definitions from Calculus and Linear Algebra Bibliography Index Biographies Danilo R Diedrichs is an Associate Professor of Mathematics at Wheaton College in Illinois Raised and educated in Switzerland he holds a PhD in applied mathematical and computational sciences from the University of Iowa as well as a master s degree in civil engineering from the Ecole Polytechnique F d rale in Lausanne Switzerland His research interests are in dynamical systems modeling applied to biology ecology and epidemiology Stephen Lovett is a Professor of Mathematics at Wheaton College in

Illinois He holds a PhD in representation theory from Northeastern University His other books include Abstract Algebra Structures and Applications 2015 Differential Geometry of Curves and Surfaces with Tom Banchoff 2016 and Differential Geometry of Manifolds 2019   *The Telegraphic Journal and Electrical Review* ,1883   *Mathematical Reviews* ,2004

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