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Soft Computing: Theories and Applications -
Millie Pant 2020-02-24

The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image

processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant

insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Compactness and Continuity On Neutrosophic Soft Metric Space - Tuhin Bera

In this paper, the notion of compact neutrosophic soft metric space is introduced. The concept of neutrosophic soft function and the composition of functions in a neutrosophic soft metric space along with suitable examples also have been brought. The continuity and uniform continuity of a neutrosophic soft function in this space have been defined and verified by proper examples. Several related properties, theorems and structural characteristics of these have been investigated here.

Advances in Metric Fixed Point Theory and Applications - Yeol Je Cho 2021-06-05

This book collects papers on major topics in fixed point theory and its applications. Each

chapter is accompanied by basic notions, mathematical preliminaries and proofs of the main results. The book discusses common fixed point theory, convergence theorems, split variational inclusion problems and fixed point problems for asymptotically nonexpansive semigroups; fixed point property and almost fixed point property in digital spaces, nonexpansive semigroups over $CAT(\kappa)$ spaces, measures of noncompactness, integral equations, the study of fixed points that are zeros of a given function, best proximity point theory, monotone mappings in modular function spaces, fuzzy contractive mappings, ordered hyperbolic metric spaces, generalized contractions in b-metric spaces, multi-tupled fixed points, functional equations in dynamic programming and Picard operators. This book addresses the mathematical community working with methods and tools of nonlinear analysis. It also serves as a reference, source for examples and new approaches associated with fixed point

theory and its applications for a wide audience including graduate students and researchers. Fuzzy Information & Engineering and Operations Research & Management - Bing-Yuan Cao 2013-11-26

Fuzzy Information & Engineering and Operations Research & Management is the monograph from submissions by the 6th International Conference on Fuzzy Information and Engineering (ICFIE2012, Iran) and by the 6th academic conference from Fuzzy Information Engineering Branch of Operation Research Society of China (FIEBORSC2012, Shenzhen, China). It is published by Advances in Intelligent and Soft Computing (AISC). We have received more than 300 submissions. Each paper of it has undergone a rigorous review process. Only high-quality papers are included in it containing papers as follows: I Programming and Optimization. II Lattice and Measures. III Algebras and Equation. IV Forecasting, Clustering and Recognition. V Systems and

Algorithm. VI Graph and Network. VII Others. Neutrosophic Sets and Systems. An International Journal in Information Science and Engineering, Vol. 36, 2020 - Florentin Smarandache 2020-10-01

Neutrosophic Sets and Systems (NSS) is an academic journal, published quarterly online and on paper, that has been created for publications of advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics etc. and their applications in any field.

Control, Computation and Information Systems - P. Balasubramaniam 2011-02-04

This book constitutes the refereed proceedings of the International Conference on Logic, Information, Control and Computation, ICLICC 2011, held in Gandhigram, India, in February 2011. The 52 revised full papers presented were carefully reviewed and selected from 278 submissions. The papers are organized in topical sections on control theory and its real time

applications, computational mathematics and its application to various fields, and information sciences focusing on image processing and neural networks.

NeutroAlgebra Theory Volume I - Florentin Smarandache 2021-06-21

A collection of papers from multiple authors. In 2019 and 2020 Smarandache [1, 2, 3, 4] generalized the classical Algebraic Structures to NeutroAlgebraic Structures (or NeutroAlgebras) {whose operations and axioms are partially true, partially indeterminate, and partially false} as extensions of Partial Algebra, and to AntiAlgebraic Structures (or AntiAlgebras) {whose operations and axioms are totally false}. The NeutroAlgebras & AntiAlgebras are a new field of research, which is inspired from our real world. In classical algebraic structures, all axioms are 100%, and all operations are 100% well-defined, but in real life, in many cases these restrictions are too harsh, since in our world we have things that only partially verify some laws

or some operations. Using the process of Neutrosophication of a classical algebraic structure we produce a NeutroAlgebra, while the process of AntiSophication of a classical algebraic structure produces an AntiAlgebra. FIXED POINT THEOREMS IN NEUTROSOPHIC METRIC SPACES - Necip ŞİMŞEK

In this paper, we introduce the neutrosophic contractive and neutrosophic mapping. We establish some results on fixed points of a neutrosophic mapping.

Neutrosophic Sets and Systems, Vol. 36, 2020 - Florentin Smarandache

“Neutrosophic Sets and Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc. Some articles in this issue: n-Refined Neutrosophic Modules, A

Neutrosophic Approach to Digital Images, A Novel Method for Neutrosophic Assignment Problem by using Interval-Valued Trapezoidal Neutrosophic Number.

Emerging Research on Applied Fuzzy Sets and Intuitionistic Fuzzy Matrices - Adak, Amal Kumar 2016-11-17

The use of fuzzy logic has become prominent in a variety of fields and applications. By implementing these logic sets, problems and uncertainties are more effectively resolved. Emerging Research on Applied Fuzzy Sets and Intuitionistic Fuzzy Matrices is a pivotal reference source for the latest scholarly perspectives on the interdisciplinary use of fuzzy logic theory, focusing on the application of sets and matrices. Highlighting theoretical framework and empirical research findings, this book is ideally designed for academics, practitioners, upper-level students, and professionals interested in an innovative overview of fuzzy logic sets and matrices.

Some Results of Neutrosophic Normed Spaces via Fibonacci Matrix - Vakeel A. Khan

Recently, Fibonacci matrix was introduced and studied by Kara and Basarir [3]. In the present paper, we introduce Fibonacci statistical convergence in neutrosophic normed space and examine some basic properties like Fibonacci statistical Cauchy and Fibonacci statistical completeness.

Fixed Point Theory and Fractional Calculus - Pradip Debnath 2022

This book collects chapters on fixed-point theory and fractional calculus and their applications in science and engineering. It discusses state-of-the-art developments in these two areas through original new contributions from scientists across the world. It contains several useful tools and techniques to develop their skills and expertise in fixed-point theory and fractional calculus. New research directions are also indicated in chapters. This book is meant for graduate students and researchers willing to expand their

knowledge in these areas. The minimum prerequisite for readers is the graduate-level knowledge of analysis, topology and functional analysis.

Nonlinear Analysis and Boundary Value Problems - Iván Area 2019-09-19

This book is devoted to Prof. Juan J. Nieto, on the occasion of his 60th birthday. Juan José Nieto Roig (born 1958, A Coruña) is a Spanish mathematician, who has been a Professor of Mathematical Analysis at the University of Santiago de Compostela since 1991. His most influential contributions to date are in the area of differential equations. Nieto received his degree in Mathematics from the University of Santiago de Compostela in 1980. He was then awarded a Fulbright scholarship and moved to the University of Texas at Arlington where he worked with Professor V. Lakshmikantham. He received his Ph.D. in Mathematics from the University of Santiago de Compostela in 1983. Nieto's work may be considered to fall within the

ambit of differential equations, and his research interests include fractional calculus, fuzzy equations and epidemiological models. He is one of the world's most cited mathematicians according to Web of Knowledge, and appears in the Thompson Reuters Highly Cited Researchers list. Nieto has also occupied different positions at the University of Santiago de Compostela, such as Dean of Mathematics and Director of the Mathematical Institute. He has also served as an editor for various mathematical journals, and was the editor-in-chief of the journal *Nonlinear Analysis: Real World Applications* from 2009 to 2012. In 2016, Nieto was admitted as a Fellow of the Royal Galician Academy of Sciences. This book consists of contributions presented at the International Conference on Nonlinear Analysis and Boundary Value Problems, held in Santiago de Compostela, Spain, 4th-7th September 2018. Covering a variety of topics linked to Nieto's scientific work, ranging from differential, difference and fractional equations to

epidemiological models and dynamical systems and their applications, it is primarily intended for researchers involved in nonlinear analysis and boundary value problems in a broad sense.

Recent Advances in Intuitionistic Fuzzy Logic Systems - Said Melliani 2018-10-09

This book aims at providing an overview of state-of-the-art in both the theory and methods of intuitionistic fuzzy logic, partial differential equations and numerical methods in informatics. It covers topics such as fuzzy intuitionistic Hilbert spaces, intuitionistic fuzzy differential equations, fuzzy intuitionistic metric spaces, and numerical methods for differential equations. It reports on applications such as fuzzy real time scheduling, intelligent control, diagnostics and time series prediction. Chapters were carefully selected among contributions presented at the second edition of the International Conference on Intuitionistic Fuzzy Sets and Mathematical Science, ICIFSMAS, held on April 11-13, 2018, at Al Akhawayn University of Ifrane, in Morocco.

Functional Equations in Mathematical Analysis - Themistocles M. Rassias 2011-09-18

The stability problem for approximate homomorphisms, or the Ulam stability problem, was posed by S. M. Ulam in the year 1941. The solution of this problem for various classes of equations is an expanding area of research. In particular, the pursuit of solutions to the Hyers-Ulam and Hyers-Ulam-Rassias stability problems for sets of functional equations and inequalities has led to an outpouring of recent research. This volume, dedicated to S. M. Ulam, presents the most recent results on the solution to Ulam stability problems for various classes of functional equations and inequalities. Comprised of invited contributions from notable researchers and experts, this volume presents several important types of functional equations and inequalities and their applications to problems in mathematical analysis, geometry, physics and applied mathematics. "Functional Equations in Mathematical Analysis" is intended for

researchers and students in mathematics, physics, and other computational and applied sciences.

Fuzzy Operator Theory in Mathematical Analysis - Yeol Je Cho 2018-08-12

This self-contained monograph presents an overview of fuzzy operator theory in mathematical analysis. Concepts, principles, methods, techniques, and applications of fuzzy operator theory are unified in this book to provide an introduction to graduate students and researchers in mathematics, applied sciences, physics, engineering, optimization, and operations research. New approaches to fuzzy operator theory and fixed point theory with applications to fuzzy metric spaces, fuzzy normed spaces, partially ordered fuzzy metric spaces, fuzzy normed algebras, and non-Archimedean fuzzy metric spaces are presented. Surveys are provided on: Basic theory of fuzzy metric and normed spaces and its topology, fuzzy normed and Banach spaces, linear

operators, fundamental theorems (open mapping and closed graph), applications of contractions and fixed point theory, approximation theory and best proximity theory, fuzzy metric type space, topology and applications.

Fixed Point Results for Contraction Theorems in Neutrosophic Metric Spaces - S Sowndrarajan 2020-10-01

In this article, we present fixed and common fixed point results for Banach and Edelstein contraction theorems in neutrosophic metric spaces. Then some properties and examples are given for neutrosophic metric spaces. Thus, we added a new path in neutrosophic theory to obtain fixed point results. We investigate and prove some contraction theorems that are extended to neutrosophic metric space with the assistance of Grabiec.

Fuzzy Information and Engineering Volume 2 - Bingyuan Cao 2009-10-14

This book is the proceedings of the Third International Conference on Fuzzy Information

and Engineering (ICFIE 2009) held in the famous mountain city Chongqing in Southwestern China, from September 26-29, 2009. Only high-quality papers are included. The ICFIE 2009, built on the success of previous conferences, the ICFIE 2007 (Guangzhou, China), is a major symposium for scientists, engineers and practitioners in the world to present their updated results, ideas, developments and applications in all areas of fuzzy information and engineering. It aims to strengthen relations between industry research laboratories and universities, and to create a primary symposium for world scientists in fuzzy fields as follows: Fuzzy Information; Fuzzy Sets and Systems; Soft Computing; Fuzzy Engineering; Fuzzy Operation Research and Management; Artificial Intelligence; Fuzzy Mathematics and Systems in Applications, etc. *Fuzzy Sets and Their Extensions: Representation, Aggregation and Models* - Humberto Bustince 2007-10-30

This carefully edited book presents an up-to-date state of current research in the use of fuzzy sets and their extensions. It pays particular attention to foundation issues and to their application to four important areas where fuzzy sets are seen to be an important tool for modeling and solving problems. The book's 34 chapters deal with the subject with clarity and effectiveness. They include four review papers introducing some non-standard representations

Fuzzy Information and Engineering - Bing-Yuan Cao 2007-07-07

The Second International Conference on Fuzzy Information and Engineering (ICFIE2007) is a major symposium for scientists, engineers and practitioners in China as well as the world to present their latest results, ideas, developments and applications in all areas of fuzzy information and knowledge engineering. It aims to strengthen relations between industry research laboratories and universities, and to create a primary symposium for world scientists.

Neutrosophic Sets and Systems, Vol. 47, 2021 - Florentin Smarandache 2021-12-30

Papers on neutrosophic statistics, neutrosophic probability, plithogenic set, paradoxism, neutrosophic set, NeutroAlgebra, etc. and their applications.

Demonstratio mathematica - 2007

On Neutrosophic Soft Metric Space - Tuhin Bera

In this paper, the notion of neutrosophic soft metric space(NSMS) is introduced in terms of neutrosophic soft points and several related properties, structural characteristics have been investigated. Then the convergence of sequence in neutrosophic soft metric space is defined and illustrated by examples.

Descriptive Topology and Functional

Analysis II - Juan Carlos Ferrando 2019-06-02

This book is the result of a meeting on Topology and Functional Analysis, and is dedicated to Professor Manuel López-Pellicer's mathematical

research. Covering topics in descriptive topology and functional analysis, including topological groups and Banach space theory, fuzzy topology, differentiability and renorming, tensor products of Banach spaces and aspects of Cp-theory, this volume is particularly useful to young researchers wanting to learn about the latest developments in these areas.

Metric Fixed Point Theory - Pradip Debnath 2022-01-04

This book collects chapters on contemporary topics on metric fixed point theory and its applications in science, engineering, fractals, and behavioral sciences. Chapters contributed by renowned researchers from across the world, this book includes several useful tools and techniques for the development of skills and expertise in the area. The book presents the study of common fixed points in a generalized metric space and fixed point results with applications in various modular metric spaces. New insight into parametric metric spaces as

well as study of variational inequalities and variational control problems have been included.

Neutrosophic Fixed Point Theorems and Cone Metric Spaces - Wadei F. Al-Omeri

The intention of this paper is to give the general definition of cone metric space in the context of the neutrosophic theory. In this relation, we obtain some fundamental results concerning fixed points for weakly compatible mapping.

Neutrosophic Sets and Systems, Vol. 42, 2021 - Florentin Smarandache

“Neutrosophic Sets and Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc. In this issue: A hybrid Model Using MCDM Methods and Bipolar Neutrosophic Sets for Select Optimal Wind Turbine: Case Study in Egypt, Graphical

Representation of Type-2 Neutrosophic sets, PESTEL Analysis to Identify Key Barriers to Smart Cities Development in India.

4th International Conference on Computational Mathematics and Engineering Sciences (CMES-2019) - Hemen Dutta 2020-01-10

This book gathers original research papers presented at the 4th International Conference on Computational Mathematics and Engineering Sciences, held at Akdeniz University, Antalya, Turkey, on 20-22 April 2019. Focusing on computational methods in science, mathematical tools applied to engineering, mathematical modeling and new aspects of analysis, the book discusses the applications of mathematical modelling in areas such as health science, engineering, computer science, social science, and economics. It also describes a wide variety of analytical, computational, and numerical methods. The conference aimed to foster cooperation between students and researchers

in the areas of computational mathematics and engineering sciences, and provide a platform for them to share significant research ideas. This book is a valuable resource for graduate students, researchers and educators interested in the mathematical tools and techniques required for solving various problems arising in science and engineering, and understanding new methods and uses of mathematical analysis.

Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences -

Pradip Debnath 2021-07-15

Soft computing techniques are no longer limited to the arena of computer science. The discipline has an exponentially growing demand in other branches of science and engineering and even into health and social science. This book contains theory and applications of soft computing in engineering, health, and social and applied sciences. Different soft computing techniques such as artificial neural networks, fuzzy systems, evolutionary algorithms and

hybrid systems are discussed. It also contains important chapters in machine learning and clustering. This book presents a survey of the existing knowledge and also the current state of art development through original new contributions from the researchers. This book may be used as a one-stop reference book for a broad range of readers worldwide interested in soft computing. In each chapter, the preliminaries have been presented first and then the advanced discussion takes place. Learners and researchers from a wide variety of backgrounds will find several useful tools and techniques to develop their soft computing skills. This book is meant for graduate students, faculty and researchers willing to expand their knowledge in any branch of soft computing. The readers of this book will require minimum prerequisites of undergraduate studies in computation and mathematics.

A Study of Triple Sequence Spaces - Vakeel A. Khan -Ayhan Asi -Nagarajan Subramanian -

Hira Fatima 2021-05-12

This book completely deals with the study of convergence of triple sequences. The concept of convergence is probably the most valuable notion in order to get a limit of a non convergent bounded sequence. There is one more idea of convergence called statistical convergence, introduced by H. Fast, which is an extension of the usual concept of sequential limits. This thought arises as an example of “convergence in density” which is also premeditated as a summability method. Even unbounded sequences can be dealt with by by means of this method. And the other convergence is “Ideal Convergence” which is a generalization of statistical convergence which was introduced first by Kostyrko. The book also discusses the applications of triple sequence in many theories such as fuzzy theory, Gai Convergence. Written in a self-reliant style, the book discusses in feature the methods of statistical convergence and ideal convergence for triple sequences along

with applications and appropriate examples. This book is aimed at both experts and non-experts with a concern in getting familiar with sequence spaces and their applications. It consists of numerous new results which are part of the modern research on these topics. It provides different points of view in one volume, e.g. their topological properties and fuzzy valued study and more. This book presents the significant role of series and sequences play in everyday life, it covers a lot of geometry on triple Sequence Spaces, it discusses the significance of generalized limit, it offers variety and well spectrum of numerous linear operators and includes fuzzy valued sequences which exhibits the study of sequence spaces in fuzzy settings. This book is the main desirability for those who work in Triple Sequence Spaces and would also provide as a good cause of suggestion for those involved with any topic of Functional Analysis.

Differential and Difference Equations with Applications - Sandra Pinelas 2020-10-21

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This edited volume gathers selected, peer-reviewed contributions presented at the fourth International Conference on Differential & Difference Equations Applications (ICDDEA), which was held in Lisbon, Portugal, in July 2019. First organized in 2011, the ICDDEA conferences bring together mathematicians from various countries in order to promote cooperation in the field, with a particular focus on applications. The book includes studies on boundary value problems; Markov models; time scales; non-linear difference equations; multi-scale modeling; and myriad applications.

Recent Advances in Intuitionistic Fuzzy Logic Systems and Mathematics - Said Melliani 2020-10-12

This book provides an overview of the state-of-the-art in both the theory and methods of intuitionistic fuzzy logic, partial differential equations and numerical methods in informatics.

Covering topics such as fuzzy intuitionistic Hilbert spaces, intuitionistic fuzzy differential equations, fuzzy intuitionistic metric spaces, and numerical methods for differential equations, it discusses applications such as fuzzy real-time scheduling, intelligent control, diagnostics and time series prediction. The book features selected contributions presented at the 6th international congress of the Moroccan Applied Mathematics Society, which took place at Sultan Moulay Slimane University Beni Mellal, Morocco, from 7 to 9 November 2019.

Derivable Single Valued Neutrosophic Graphs Based on KM-Fuzzy Metric - MOHAMMAD HAMIDI

In this paper we consider the concept of KM-fuzzy metric spaces and we introduce a novel concept of KM-single valued neutrosophic metric graphs based on KM-fuzzy metric spaces. Then we investigate the \square nite KM-fuzzy metric spaces with respect to KM-fuzzy metrics and we construct the KM-fuzzy metric spaces on any

given non-empty sets. We try to extend the concept of KM-fuzzy metric spaces to a larger class of KM-fuzzy metric spaces such as union and product of KM-fuzzy metric spaces and in this regard we investigate the class of products of KM-single valued neutrosophic metric graphs. In the final, we define some operations such as tensor product, Cartesian product, semi-strong product, strong product, union, semi-ring sum, suspension, and complement of KM-single valued neutrosophic metric graphs.

Investigations Into Living Systems, Artificial Life, and Real-world Solutions - George D.

Magoulas 2013-01-01

"This book provides original research on the theoretical and applied aspects of artificial life, as well as addresses scientific, psychological, and social issues of synthetic life-like behavior and abilities"--Provided by publisher.

Foundations of Fuzzy Logic and Soft Computing

- Patricia Melin 2007-07-02

This book comprises a selection of papers from

IFSA 2007 on new methods and theories that contribute to the foundations of fuzzy logic and soft computing. Coverage includes the application of fuzzy logic and soft computing in flexible querying, philosophical and human-scientific aspects of soft computing, search engine and information processing and retrieval, as well as intelligent agents and knowledge ant colony.

Fixed Points on Probabilistic and Fuzzy Structures - Mohamad Rafi Segi Rahmat 2009-07

In this book, we introduce some generalized probabilistic structure by extending several concepts of known classical spaces such as Random Space, Ultrametric Space and Hyper Space. In these newly developed probabilistic structure, we prove several fixed point theorem under some generalized contraction conditions. Particularly, a fixed point theorem for iterated function system (IFS) on a precompact probabilistic metric (PM) spaces investigated. In addition, we extend the theory of fixed points for

multi-valued contractions in PM spaces and prove several common fixed point theorems and coincidence point theorems. In the case of non existence of fixed point, we study the approximate fixed point with some weak conditions. In chapter 6 we prove a fixed point theorem for self discontinuous mappings on probabilistic normed spaces. Finally, in the last two chapters, we considered the intuitionistic fuzzy metric spaces. We extend the fuzzy quasi-metric spaces to intuitionistic fuzzy quasi-metric spaces. By defining an appropriate contraction condition we proved a fixed point theorem in this space.

Neutrosophic Metric Spaces - Murat Kirisci

In present paper, the definition of new metric space with neutrosophic numbers is given. Several topological and structural properties have been investigated. The analogues of Baire Category Theorem and Uniform Convergence Theorem are given for Neutrosophic metric spaces.

Computational Intelligence - Kurosh Madani 2012-02-18

The present book includes a set of selected extended papers from the second International Joint Conference on Computational Intelligence (IJCCI 2010), held in Valencia, Spain, from 24 to 26 October 2010. The conference was composed by three co-located conferences: The International Conference on Fuzzy Computation (ICFC), the International Conference on Evolutionary Computation (ICEC), and the International Conference on Neural Computation (ICNC). Recent progresses in scientific developments and applications in these three areas are reported in this book. IJCCI received 236 submissions, from 49 countries, in all continents. After a double blind paper review performed by the Program Committee, only 30 submissions were accepted as full papers and thus selected for oral presentation, leading to a full paper acceptance ratio of 13%. Additional papers were accepted as short papers and

posters. A further selection was made after the Conference, based also on the assessment of presentation quality and audience interest, so that this book includes the extended and revised versions of the very best papers of IJCCI 2010. Commitment to high quality standards is a major concern of IJCCI that will be maintained in the next editions, considering not only the stringent

paper acceptance ratios but also the quality of the program committee, keynote lectures, participation level and logistics.

Fuzzy Mathematics - Etienne E. Kerre
2018-11-28

This book is a printed edition of the Special Issue "Fuzzy Mathematics" that was published in Mathematics