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Fuzzy fixed point theorems on the complete fuzzy spaces under supremum metric

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Abstract

By using the concept of a class of functions, the \mathcal{R} -functions, we provide some fuzzy fixed point theorems on a space of fuzzy sets equipped with the supremum metric. By presenting a technique of constructing a sequence of successive approximations, we obtain some interesting results that improve many existing results. The related cases are also shown and discussed.

MSC: 47H10; 47S40; 54H25

Keywords: fuzzy set; supremum metric; fuzzy mapping; fuzzy fixed point; \mathcal{R} -functions

1 Introduction

By using a natural generalization of the concept of a set, the fuzzy set, which was introduced initially by Zadeh [1], considering mathematical programming problems which are expressed as optimizing some goal function given certain constraints, this be relaxed by means of a subjective gradation. In 1981, Heilpern [2] used the concept of fuzzy sets and introduced a class of fuzzy mappings, which is a generalization of the set-valued mapping, and proved a fixed point theorem for fuzzy contraction mappings in metric linear spaces. It is worth noting that the result announced by Heilpern [2] is a fuzzy extension of the Banach contraction principle. Subsequently, several other authors have studied the existence of fixed points of fuzzy mappings; for example, Estruch and Vidal [3] proved a fixed point theorem for fuzzy contraction mappings over a complete metric space, which is a generalization of the given Heilpern fixed point theorem, and Sedghi *et al.* [4] gave an extended version of the Estruch and Vidal [3] theorem (for more examples, see [5–14]).

Although many kinds of fixed point theorems for fuzzy contraction mappings in complete metric spaces have been studied extensively in recent years, we have to point out that one has given most attention to the class of fuzzy sets with nonempty compact α -cut sets in the metric space X , but little attention to the class of fuzzy sets with nonempty bounded or closed, or even bounded closed, α -cut sets. However, it is well known that all compact sets are bounded closed sets in a general metric space and the converse is not always true.

In 2008, Qui and Shu [12] established the completeness of $CB(X)$ with respect to the completeness of the metric space X , where $CB(X)$ denotes the class of fuzzy sets with

Fuzzy Spaces

David Dagan Feng, Janan Zaytoon



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Soft Computing Pradip Debnath, Binod Chandra Tripathy, 2024-09-30 This book examines the latest developments in the area of soft computing with engineering applications. It explores topics such as fuzzy sets, intuitionistic fuzzy sets, unmanned aerial vehicles, soft sets, neutrosophic sets, fractional calculus, big data analytics, and the mathematical foundations of convolutional neural networks (CNNs). **Soft Computing Engineering Applications** offers readers a comprehensive and in-depth understanding of various cutting-edge technologies that are transforming industries worldwide. The book explores soft computing techniques in a very systematic manner. It elucidates the concepts, theories, and applications of fuzzy sets, enabling readers to grasp the fundamentals and explore their applications in various fields. It provides new insight into unmanned aerial vehicle applications, fuzzy soft set-based decision making. It then discusses new fixed point results in orthogonal neutrosophic generalized metric spaces and explores statistical convergence of triple sequences in a credibility space. The authors then provide readers with a solid grasp of the mathematical underpinnings of CNNs, enabling them to design, train, and optimize neural networks for image recognition, object detection, and other computer vision tasks. The authors also present new studies in fractional calculus and explore advanced visualization algorithms and techniques for big data analytics. **Soft Computing** will be useful for beginners and advanced researchers in engineering, applied sciences, and healthcare professionals working in soft computing applications.

Fuzzy Logic and its Applications to Engineering, Information Sciences, and Intelligent Systems Zeungnam Bien, K.C. Min, 2012-12-06 Fuzzy technology has emerged as one of the most exciting new concepts available. **Fuzzy Logic and its Applications** covers a wide range of the theory and applications of fuzzy logic and related systems, including industrial applications of fuzzy technology, implementing human intelligence in machines and systems. There are four main themes: intelligent systems, engineering, mathematical foundations, and information sciences. Both academics and the technical community will learn how and why fuzzy logic is appreciated in the conceptual design and manufacturing stages of intelligent systems, gaining an improved understanding of the basic science and the foundations of human reasoning.

Compactness and Continuity On Neutrosophic Soft Metric Space Tuhin Bera, Nirmal Kumar Mahapatra, 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.

Neutrosophic Semiopen Hypersoft Sets with an Application to MAGDM under the COVID-19 Scenario D. Ajay, Joseline Charisma, N. Boonsatit, P. Hammachukiattikul, G. Rajchakit, Hypersoft set is a generalization of soft sets which takes into account a multiargument function. The main objective of this work is to introduce fuzzy semiopen and closed hypersoft sets and study some of their characterizations and also to present neutrosophic semiopen and closed

hypersoft sets an extension of fuzzy hypersoft sets along with few basic properties We propose two algorithms based on neutrosophic hypersoft open sets and topology to obtain optimal decisions in MAGDM The efficiency of the algorithms proposed is demonstrated by applying them to the current COVID 19 scenario

New Development of Neutrosophic Probability, Neutrosophic Statistics, Neutrosophic Algebraic Structures, and Neutrosophic Plithogenic

Optimizations Florentin Smarandache, Yanhui Guo, 2022-09-01 This volume presents state of the art papers on new topics related to neutrosophic theories such as neutrosophic algebraic structures neutrosophic triplet algebraic structures neutrosophic extended triplet algebraic structures neutrosophic algebraic hyperstructures neutrosophic triplet algebraic hyperstructures neutrosophic n ary algebraic structures neutrosophic n ary algebraic hyperstructures refined neutrosophic algebraic structures refined neutrosophic algebraic hyperstructures quadruple neutrosophic algebraic structures refined quadruple neutrosophic algebraic structures neutrosophic image processing neutrosophic image classification neutrosophic computer vision neutrosophic machine learning neutrosophic artificial intelligence neutrosophic data analytics neutrosophic deep learning and neutrosophic symmetry as well as their applications in the real world

From Fields To Strings: Circumnavigating Theoretical Physics: Ian Kogan Memorial Collection (In 3 Vols) Shifman Misha, Wheeler John, Vainshtein Arkady, 2005-02-03 This volume is a collection of dedicated reviews covering all aspects of theoretical high energy physics and some aspects of solid state physics Some of the papers are broad reviews of topics that span the entire field while others are surveys of authors personal achievements This is the most comprehensive review collection reflecting state of the art at the end of 2004 An important and unique aspect is a special effort the authors have invested in making the presentation pedagogical

Soft Computing: Theories and Applications Millie Pant, Tarun K. Sharma, Om Prakash Verma, Rajesh Singla, Afzal Sikander, 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

Principles of Modeling Uncertainties in Spatial Data and Spatial Analyses Wenzhong Shi, 2009-09-30 When compared to classical sciences such as math with roots in prehistory and physics with roots in antiquity geographical information science GISci is the new kid on the block Its theoretical foundations are therefore still developing and data quality and uncertainty modeling for spatial data and spatial analysis is an important branch of t

From Fields to Strings Misha Shifman, Arkady Vainshtein, J. F. Wheeler, 2005

Quotient Space Based Problem Solving Ling Zhang, Bo Zhang, 2014-01-30 Quotient Space Based Problem Solving provides an in depth treatment of hierarchical problem solving computational complexity and the principles and applications of multi granular computing including inference information

fusing planning and heuristic search Explains the theory of hierarchical problem solving its computational complexity and discusses the principle and applications of multi granular computing Describes a human like theoretical framework using quotient space theory that will be of interest to researchers in artificial intelligence Provides many applications and examples in the engineering and computer science area Includes complete coverage of planning heuristic search and coverage of strictly mathematical models *Fuzziness and Foundations of Exact and Inexact Sciences* Kofi Kissi Dompere, 2012-08-23

The monograph is an examination of the fuzzy rational foundations of the structure of exact and inexact sciences over the epistemological space which is distinguished from the ontological space It is thus concerned with the demarcation problem It examines exact science and its critique of inexact science The role of fuzzy rationality in these examinations is presented The driving force of the discussions is the nature of the information that connects the cognitive relational structure of the epistemological space to the ontological space for knowing The knowing action is undertaken by decision choice agents who must process information to derive exact inexact or true false conclusions The information processing is done with a paradigm and laws of thought that constitute the input output machine The nature of the paradigm selected depends on the nature of the information structure that is taken as input of the thought processing Generally the information structure received from the ontological space is defective from the simple principles of acquaintances and the limitations of cognitive agents operating in the epistemological space How then do we arrive and claim exactness in our knowledge production system The general conclusion of this book is that the conditions of the fuzzy paradigm with its laws of thought and mathematics present a methodological unity of exact and inexact sciences where every zone of thought has fuzzy covering

Neutrosophic Sets and Systems, vol. 73/2024 {Proceedings of the "Mediterranean Conference on Three Decades of Neutrosophic and Plithogenic Theories and Applications" (MeCoNeT 2024)} Florentin Smarandache, Mohamed Abdel-Basset, Giorgio Nardo, Maikel Leyva-Vázquez , 2024-12-01 This volume contains the proceedings of the Mediterranean Conference on Neutrosophic Theory MeCoNeT 2024 held at the Accademia Peloritana dei Pericolanti of the University of Messina on September 24 25 2024 The event was organized by the MIFT Department Mathematics Computer Science Physics and Earth Sciences of the University of Messina marking the first international congress on neutrosophic theories outside the Americas This milestone has firmly established the Mediterranean region as a key hub for research in the rapidly growing field of neutrosophic theory The MeCoNeT 2024 conference drew over 100 participants from more than 15 countries with more than 50 scientific contributions selected through a rigorous peer review process The hybrid format of the event featuring in person sessions at the historical Accademia Peloritana dei Pericolanti and online parallel sessions allowed for broad international participation The conference thus offered an ideal platform for sharing interdisciplinary research and addressing contemporary challenges in mathematics and beyond *On Neutrosophic Soft Topological Space* Tuhin Bera, Nirmal Kumar Mahapatra, In this paper the concept of connectedness and compactness on neutrosophic soft topological

space have been introduced along with the investigation of their several characteristics. Some related theorems have been established also. Then the notion of neutrosophic soft continuous mapping on a neutrosophic soft topological space and its properties are developed here. **Multiplicative Inverse Functional Equations** B. V. Senthil Kumar, Hemen Dutta, 2020-04-06. This book introduces readers to numerous multiplicative inverse functional equations and their stability results in various spaces. This type of functional equation can be of use in solving many physical problems and also has significant relevance in various scientific fields of research and study. In particular, multiplicative inverse functional equations have applications in electric circuit theory, physics, and relations connecting the harmonic mean and arithmetic mean of several values. Providing a wealth of essential insights and new concepts in the field of functional equations, the book is chiefly intended for researchers, graduate schools, graduate students, and educators and can also be used for seminars in analysis covering topics of functional equations. **Modelling and Control in Biomedical Systems 2006** David Dagan Feng, Janan Zaytoon, 2006-09-19. Modelling and Control in Biomedical Systems including Biological Systems was held in Reims, France, 20-22 August 2006. This Symposium was organised by the University of Reims Champagne Ardenne and the Soci t  de l'Electricit  et de l'Electronique et des TIC SEE. The Symposium attracted practitioners in engineering, information technology, mathematics, medicine, and biology and other related disciplines with authors from 24 countries. Besides the abstracts of the four plenary lectures, this volume contains the 92 papers that were presented by their authors at the Symposium. The papers included two invited keynote presentations given by internationally prominent and well recognised research leaders: Claudio Cobelli whose talk is titled 'Dynamic modelling in diabetes from whole body to genes' and Irving J. Bigio whose talk is titled 'Elastic scattering spectroscopy for non-invasive detection of cancer'. Two prestigious industrial speakers were also invited to give keynote presentations: Terry O'Brien from LIDCO whose talk is titled 'LIDCO: From the laboratory to protocolized goal directed therapy' and Lorenzo Quinzio of Philips whose talk is titled 'Clinical decision support in monitoring and information systems'. A valuable source of information on the state of the art in Modelling and Control in Biomedical Systems. Including abstracts of four plenary lectures and 92 papers presented by their authors. **On Neutrosophic Soft Metric Space** Tuhin Bera, Nirmal Kumar Mahapatra, 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. **An Invitation to Noncommutative Geometry** Masoud Khalkhali, Matilde Marcolli, 2008. This is the first existing volume that collects lectures on this important and fast developing subject in mathematics. The lectures are given by leading experts in the field and the range of topics is kept as broad as possible by including both the algebraic and the differential aspects of noncommutative geometry as well as recent applications to theoretical physics and number theory. **Symmetries and Groups in Contemporary Physics** Chengming Bai, 2013. This volume focuses on developments in the field of group theory in its broadest sense and is of interest

to theoretical and experimental physicists mathematicians and scientists in related disciplines who are interested in the latest methods and applications In an increasingly ultra specialized world this volume will demonstrate the interchange of ideas and methods in theoretical and mathematical physics

Information Processing and Management of Uncertainty Anne Laurent, Olivier Strauss, Bernadette Bouchon-Meunier, Ronald R. Yager, 2014-07-17 These three volumes CCIS 442 443 444 constitute the proceedings of the 15th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2014 held in Montpellier France July 15 19 2014 The 180 revised full papers presented together with five invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on uncertainty and imprecision on the web of data decision support and uncertainty management in agri environment fuzzy implications clustering fuzzy measures and integrals non classical logics data analysis real world applications aggregation probabilistic networks recommendation systems and social networks fuzzy systems fuzzy logic in boolean framework management of uncertainty in social networks from different to same from imitation to analogy soft computing and sensory analysis database systems fuzzy set theory measurement and sensory information aggregation formal methods for vagueness and uncertainty in a many valued realm graduality preferences uncertainty management in machine learning philosophy and history of soft computing soft computing and sensory analysis similarity analysis fuzzy logic formal concept analysis and rough set intelligent databases and information systems theory of evidence aggregation functions big data the role of fuzzy methods imprecise probabilities from foundations to applications multinomial logistic regression on Markov chains for crop rotation modelling intelligent measurement and control for nonlinear systems

Building Bridges between Soft and Statistical Methodologies for Data Science Luis A. García-Escudero, Alfonso Gordaliza, Agustín Mayo, María Asunción Lubiano Gomez, Maria Angeles Gil, Przemyslaw Grzegorzewski, Olgierd Hryniewicz, 2022-08-24 Nowadays data analysis is becoming an appealing topic due to the emergence of new data types dimensions and sources This motivates the development of probabilistic statistical approaches and tools to cope with these data Different communities of experts namely statisticians mathematicians computer scientists engineers econometricians and psychologists are more and more interested in facing this challenge As a consequence there is a clear need to build bridges between all these communities for Data Science This book contains more than fifty selected recent contributions aiming to establish the above referred bridges These contributions address very different and relevant aspects such as imprecise probabilities information theory random sets and random fuzzy sets belief functions possibility theory dependence modelling and copulas clustering depth concepts dimensionality reduction of complex data and robustness

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