

Olga Hadžić; Endre Pap; Mirko Budinčević

Countable extension of triangular norms and their applications to the fixed point theory in probabilistic metric spaces

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# Fixed Point Theory In Probabilistic Metric Spaces

**Dhananjay Gopal, Praveen  
Agarwal, Poom Kumam**



## **Fixed Point Theory In Probabilistic Metric Spaces:**

*Fixed Point Theory in Probabilistic Metric Spaces* Olga Hadžić, 1995      *Fixed Point Theory in Probabilistic Metric Spaces*  
O. Hadžić, Endre Pap, 2001-11-30 Fixed point theory in probabilistic metric spaces can be considered as a part of Probabilistic Analysis which is a very dynamic area of mathematical research. A primary aim of this monograph is to stimulate interest among scientists and students in this fascinating field. The text is self-contained for a reader with a modest knowledge of the metric fixed point theory. Several themes run through this book. The first is the theory of triangular norms  $t$ -norms which is closely related to fixed point theory in probabilistic metric spaces. Its recent development has had a strong influence upon the fixed point theory in probabilistic metric spaces. In Chapter 1 some basic properties of  $t$ -norms are presented and several special classes of  $t$ -norms are investigated. Chapter 2 is an overview of some basic definitions and examples from the theory of probabilistic metric spaces. Chapters 3, 4, and 5 deal with some single-valued and multi-valued probabilistic versions of the Banach contraction principle. In Chapter 6 some basic results in locally convex topological vector spaces are used and applied to fixed point theory in vector spaces. Audience: The book will be of value to graduate students, researchers, and applied mathematicians working in nonlinear analysis and probabilistic metric spaces.

*Metric Structures and Fixed Point Theory*  
Dhananjay Gopal, Praveen Agarwal, Poom Kumam, 2021-04-08 It is an indisputable argument that the formulation of metrics by Fréchet in the early 1900s opened a new subject in mathematics called non-linear analysis after the appearance of Banach's fixed point theorem. Because the underlying space of this theorem is a metric space, the theory that developed following its publication is known as metric fixed point theory. It is well known that metric fixed point theory provides essential tools for solving problems arising in various branches of mathematics and other sciences such as split feasibility problems, variational inequality problems, non-linear optimization problems, equilibrium problems, selection and matching problems, and problems of proving the existence of solutions of integral and differential equations are closely related to fixed point theory. For this reason, many people over the past seventy years have tried to generalize the definition of metric space and corresponding fixed point theory. This trend still continues. A few questions lying at the heart of the theory remain open, and there are many unanswered questions regarding the limits to which the theory may be extended. *Metric Structures and Fixed Point Theory* provides an extensive understanding and the latest updates on the subject. The book not only shows diversified aspects of popular generalizations of metric spaces such as symmetric  $b$ -metric,  $w$ -distance,  $G$ -metric, modular metric, probabilistic metric, fuzzy metric, graphical metric, and corresponding fixed point theory but also motivates work on existing open problems on the subject. Each of the nine chapters contributed by various authors contains an Introduction section which summarizes the material needed to read the chapter independently of the others and contains the necessary background, several examples, and comprehensive literature to comprehend the concepts presented therein. This is helpful for those who want to pursue their research career in metric fixed point theory and its related areas.

Features: Explores the latest research and

developments in fixed point theory on the most popular generalizations of metric spaces Description of various generalizations of metric spaces Very new topics on fixed point theory in graphical and modular metric spaces Enriched with examples and open problems This book serves as a reference for scientific investigators who need to analyze a simple and direct presentation of the fundamentals of the theory of metric fixed points It may also be used as a text book for postgraduate and research students who are trying to derive future research scope in this area

*Nonlinear Operator Theory in Probabilistic Metric Spaces* Shih-sen Chang, Yeol Je Cho, Sin-min Kang, 2001 The purpose of this book is to give a comprehensive introduction to the study of non linear operator theory in probabilistic metric spaces This book is introduced as a survey of the latest and new results on the following topics Basic theory of probabilistic metric spaces Fixed point theorems for single valued and multi valued mappings in probabilistic metric spaces Ekeland's variational principle and Caristi's fixed point theorem in probabilistic metric spaces Coincidence point theorems minimisation and fixed degree theorems in probabilistic metric spaces Probabilistic contractors accretive mappings and topological degree in probabilistic normed spaces Nonlinear semigroups and differential equations in probabilistic metric spaces KKM theorems minimax theorems and variational inequalities

*Fixed Point Theory and Applications, Volume 6* Yeol Je Cho, Jong Kyu Kim, 2007

**Fixed Point Theory Applications**

**Fixed Point Theory and Related Topics** Hsien-Chung Wu, 2020-03-13 Fixed point theory arose from the Banach contraction principle and has been studied for a long time Its application mostly relies on the existence of solutions to mathematical problems that are formulated from economics and engineering After the existence of the solutions is guaranteed the numerical methodology will be established to obtain the approximated solution Fixed points of function depend heavily on the considered spaces that are defined using the intuitive axioms In particular variant metrics spaces are proposed like a partial metric space b metric space fuzzy metric space and probabilistic metric space etc Different spaces will result in different types of fixed point theorems In other words there are a lot of different types of fixed point theorems in the literature Therefore this Special Issue welcomes survey articles Articles that unify the different types of fixed point theorems are also very welcome The topics of this Special Issue include the following Fixed point theorems in metric space Fixed point theorems in fuzzy metric space Fixed point theorems in probabilistic metric space Fixed point theorems of set valued functions in various spaces The existence of solutions in game theory The existence of solutions for equilibrium problems The existence of solutions of differential equations The existence of solutions of integral equations Numerical methods for obtaining the approximated fixed points

**Fixed Point Theory and Applications** Yeol Je Cho, 2007-08 This volume deals with new topics in the areas of fixed point theory variational inequality and complementarity problem theory non linear ergodic theory difference differential and integral equations control and optimisation theory dynamic system theory inequality theory stochastic analysis and probability theory and their applications

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

**Handbook of Metric Fixed Point Theory** W.A. Kirk,B. Sims,2013-04-17 Metric fixed point theory encompasses the branch of fixed point theory which metric conditions on the underlying space and or on the mappings play a fundamental role In some sense the theory is a far reaching outgrowth of Banach s contraction mapping principle A natural extension of the study of contractions is the limiting case when the Lipschitz constant is allowed to equal one Such mappings are called nonexpansive Nonexpansive mappings arise in a variety of natural ways for example in the study of holomorphic mappings and hyperconvex metric spaces Because most of the spaces studied in analysis share many algebraic and topological properties as well as metric properties there is no clear line separating metric fixed point theory from the topological or set theoretic branch of the theory Also because of its metric underpinnings metric fixed point theory has provided the motivation for the study of many geometric properties of Banach spaces The contents of this Handbook reflect all of these facts The purpose of the Handbook is to provide a primary resource for anyone interested in fixed point theory with a metric flavor The goal is to provide information for those wishing to find results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces The level of exposition is directed to a wide audience including students and established researchers

**Common Fixed Point Theorem in Probabilistic G-Metric Space** Menger Samira Jalili Nargesi,2022-08-23 In this book I first introduce the concepts of t norm distance distribution function and triangle function and then by using of these concepts I introduce probabilistic metric space and Menger probabilistic generalized metric space In the other section by introducing the concepts of compatibility weak compatible property E A and property G E A in a Menger probabilistic generalized metric space I show some fixed point theorems

On Fixed Point Theorems for Mappings on Probabilistic Metric Spaces I. Istrăţescu,E. Roventă,1974

Some Fixed Point Theorems in Menger Spaces and Applications Suneel Kumar,B. D. Pant,2012-04 Fixed Point Theory is a beautiful mixture of analysis pure and applied topology and geometry Fixed point theorems give the conditions under which mappings single or multivalued have solutions The fixed

point theory in probabilistic metric spaces is useful in the study of existence of solutions of operator equations in probabilistic metric space and probabilistic functional analysis which is a very dynamic area of mathematical research The notion of a probabilistic metric space corresponds to the situations when we do not know exactly the distance between two points we know only probabilities of possible values of this distance This book contains six chapters New fixed point theorems for contraction mappings expansion mappings probabilistic densifying mappings are obtained in Menger spaces Also related fixed point theorems in Menger spaces and applications of fixed point theorems are studied This book will help the researchers studying fixed point theory *A Study of Some* Shimaa Ibrahim Moustafa, Nassar H. Abdel-All, Rashwan A.

Rashwan, 2013-09-08 Fixed Point Theory V.I. Istratescu, 2001-11-30 Approach your problems from the right It isn't that they can't see the solution It ends and begins with the answers Then is that they can't see the problem one day perhaps you will find the final G K Chesterton The Scandal of Father question Brown The Point of a Pin The Hermit Clad in Crane Feathers in R Van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces

*Background and Recent Developments of Metric Fixed Point Theory* Dhananjay Gopal, Poom Kumam, Mujahid Abbas, 2017-11-28 This book focusing on Metric fixed point theory is designed to provide an extensive understanding of the topic with the latest updates It provides a good source of references open questions and new approaches While the book is principally addressed to graduate students it is also intended to be useful to mathematicians both pure and applied **Fixed Point Theory and Graph Theory** Monther Alfuraidan, Qamrul Ansari, 2016-06-20 Fixed Point Theory and Graph Theory provides an intersection between the theories of fixed point theorems that give the conditions under which maps single or multivalued have solutions and graph theory which uses mathematical structures to illustrate the relationship between ordered pairs of objects in terms of their vertices and directed edges This edited reference work is perhaps the first to provide a link between the two theories describing not only their foundational aspects but also the most recent advances and the fascinating intersection of the domains The authors provide solution methods for fixed points in different settings with two chapters devoted to the solutions method for critically important non linear problems in engineering namely variational inequalities fixed point split feasibility and hierarchical variational inequality problems The last two chapters are devoted to

integrating fixed point theory in spaces with the graph and the use of retractions in the fixed point theory for ordered sets Introduces both metric fixed point and graph theory in terms of their disparate foundations and common application environments Provides a unique integration of otherwise disparate domains that aids both students seeking to understand either area and researchers interested in establishing an integrated research approach Emphasizes solution methods for fixed points in non linear problems such as variational inequalities split feasibility and hierarchical variational inequality problems that is particularly appropriate for engineering and core science applications **Scientia Magna, Vol. 8, No. 1, 2012** Zhang Wenpeng, Papers on the hybrid mean value of the Smarandache kn digital separation axioms in an ordered intuitionistic fuzzy bitopological space iterations of strongly pseudocontractive maps in Banach spaces certain differential subordination involving a multiplier transformation modified multi step Noor method for a finite family of strongly pseudo contractive maps and similar topics Contributors N Subramanian R N Devi U K Misra A A Mogbademu S Hussain S Panayappan S Chauhan and others **Mathematics and Computer Science, Volume 1** Sharmistha Ghosh,M. Niranjana Murthy, Krishanu Deyasi, Biswadip Basu Mallik, Santanu Das, 2023-08-15 MATHEMATICS AND COMPUTER SCIENCE This first volume in a new multi volume set gives readers the basic concepts and applications for diverse ideas and innovations in the field of computing together with its growing interactions with mathematics This new edited volume from Wiley Scrivener is the first of its kind to present scientific and technological innovations by leading academicians eminent researchers and experts around the world in the areas of mathematical sciences and computing The chapters focus on recent advances in computer science and mathematics and where the two intersect to create value for end users through practical applications of the theory The chapters herein cover scientific advancements across a diversified spectrum that includes differential as well as integral equations with applications computational fluid dynamics nanofluids network theory and optimization control theory machine learning and artificial intelligence big data analytics Internet of Things cryptography fuzzy automata statistics and many more Readers of this book will get access to diverse ideas and innovations in the field of computing together with its growing interactions in various fields of mathematics Whether for the engineer scientist student academic or other industry professional this is a must have for any library **Recent Advances in Intuitionistic Fuzzy Logic Systems** Said Melliani, Oscar Castillo, 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 *Advances in Metric Fixed Point Theory and Applications*

Yeol Je Cho, Mohamed Jleli, Mohammad Mursaleen, Bessem Samet, Calogero Vetro, 2021-05-04 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 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



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## **Table of Contents Fixed Point Theory In Probabilistic Metric Spaces**

1. Understanding the eBook Fixed Point Theory In Probabilistic Metric Spaces
  - The Rise of Digital Reading Fixed Point Theory In Probabilistic Metric Spaces
  - Advantages of eBooks Over Traditional Books
2. Identifying Fixed Point Theory In Probabilistic Metric Spaces
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Fixed Point Theory In Probabilistic Metric Spaces
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fixed Point Theory In Probabilistic Metric Spaces
  - Personalized Recommendations
  - Fixed Point Theory In Probabilistic Metric Spaces User Reviews and Ratings
  - Fixed Point Theory In Probabilistic Metric Spaces and Bestseller Lists
5. Accessing Fixed Point Theory In Probabilistic Metric Spaces Free and Paid eBooks
  - Fixed Point Theory In Probabilistic Metric Spaces Public Domain eBooks
  - Fixed Point Theory In Probabilistic Metric Spaces eBook Subscription Services
  - Fixed Point Theory In Probabilistic Metric Spaces Budget-Friendly Options

6. Navigating Fixed Point Theory In Probabilistic Metric Spaces eBook Formats
  - ePub, PDF, MOBI, and More
  - Fixed Point Theory In Probabilistic Metric Spaces Compatibility with Devices
  - Fixed Point Theory In Probabilistic Metric Spaces Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fixed Point Theory In Probabilistic Metric Spaces
  - Highlighting and Note-Taking Fixed Point Theory In Probabilistic Metric Spaces
  - Interactive Elements Fixed Point Theory In Probabilistic Metric Spaces
8. Staying Engaged with Fixed Point Theory In Probabilistic Metric Spaces
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fixed Point Theory In Probabilistic Metric Spaces
9. Balancing eBooks and Physical Books Fixed Point Theory In Probabilistic Metric Spaces
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fixed Point Theory In Probabilistic Metric Spaces
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Fixed Point Theory In Probabilistic Metric Spaces
  - Setting Reading Goals Fixed Point Theory In Probabilistic Metric Spaces
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fixed Point Theory In Probabilistic Metric Spaces
  - Fact-Checking eBook Content of Fixed Point Theory In Probabilistic Metric Spaces
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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