

APPLICATIONS OF FIXED POINT THEORY IN HILBERT SPACES

KIRAN DEWANGAN

ABSTRACT. In the presented paper, the first section contains strong convergence and demiclosedness property of a sequence generated by Karakaya et al. iteration scheme in a Hilbert space for quasi-nonexpansive mappings and also the comparison between the iteration scheme given by Karakaya et al. with well-known iteration schemes for the convergence rate. The second section contains some applications of the fixed point theory in solution of different mathematical problems.

1. Introduction

Fixed point theory plays an important role not only in the field of analysis, but also used to find out solutions of different problems like integral equations, differential equations, convex minimization problems, image recovery, signal processing (refer to [7, 8, 23]) etc.

There are lots of fixed point results in different spaces. One of the most important and fruitful result in a metric space was given by Banach [5] called "Banach Contraction Principle". This principle was further generalized and its several variants were studied by mathematicians over different spaces.

Let X be a Hilbert space and K be a non-empty subset of X . A point $x \in X$ is called a fixed point of a mapping $T : X \rightarrow X$ if $T(x) = x$. Through-out the literature, $F(T)$ denotes the set of fixed points of T , that is, $F(T) = \{x \in X : Tx = x\}$. Note that a mapping $T : K \rightarrow K$ is called

- (i) Lipschitz if $\|Tx - Ty\| \leq L\|x - y\|$, for all $x, y \in K$, where $L > 0$.
- (ii) contraction if $\|Tx - Ty\| \leq L\|x - y\|$, for all $x, y \in K$, where $0 < L < 1$.
- (iii) nonexpansive if $\|Tx - Ty\| \leq \|x - y\|$, for all $x, y \in K$ and $L = 1$.

Note that the Banach contraction principle is no longer true for nonexpansive mappings. The study of fixed points of mappings with certain contraction condition attract many researcher, but nonexpansive mapping has also an important role in fixed point theory. The study of nonexpansive mappings were basically motivated by Browder's [6] work on relationship between monotone operators and nonexpansive

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A Study On Fixed Point Theory With Applications

Michal Rosen-Zvi



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implies is to give a rough idea of the basic types some important theorems and a few common applications of Fixed Point Theorey and also to enhance my career as a mathematician in the field of fixed point theory The book will serve good for the beginners in the field of fixed point in the similar manner as I was beniffited from the valuable contents provided in the book In writing this book the works of standard authors have been a great help and I am greatly indebted to them Above all research papers and articles of eminent researchers and authors helped me a lot while completing this book Any errors that may appear are of course my responsibility I warmly welcome any suggestion or correction from the valuable readers of this book Ph Suranjoy Singh A Study On Fixed Point Theory Suranjoy Singh,2024-02-13 Fixed Point Theory is an attractive and interesting subject with a large number of applications in various fields of mathematics and other branches of science The main intention of writing this book is as the topic of the book A Study On Fixed Point Theory And Its Applications implies is to give a rough idea of the basic types some important theorems and a few common applications of Fixed Point Theorey and also to enhance my career as a mathematician in the field of fixed point theory The book will serve good for the beginners in the field of fixed point in the similar manner as I was beniffited from the valuable contents provided in the book In writing this book the works of standard authors have been a great help and I am greatly indebted to them Above all research papers and articles of eminent researchers and authors helped me a lot while completing this book 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 *Fixed Point Theory in Metric Spaces* Praveen Agarwal,Mohamed Jleli,Bessem Samet,2018-10-13 This book provides a detailed study of recent results in metric fixed point theory and presents several applications in nonlinear analysis including matrix equations integral equations and polynomial approximations Each chapter is accompanied by basic definitions mathematical preliminaries and proof of the main results Divided into ten chapters it discusses topics such as the Banach contraction principle and its converse Ran Reurings fixed point theorem with applications the existence of fixed points for the class of contractive

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A Study on Fixed Point Theory Ph Singh, 2013-09-19 Fixed Point Theory is an attractive and interesting subject with a large number of applications in various fields of mathematics and other branches of science This book offers encouragement and empowers readers to embrace the basic history the basic types of fixed point theories important theorems and some common selected applications of fixed point theory Above all only lucid language is used so that this book will also be beginners friendly A brief description of the contents is given below Chapter 1 Introduction 2 pages Concept of fixed point a brief history basic types of the theory Chapter 2 Topological Fixed Point Theory 68 pages Introduction and Background Topological Fixed Point Property Background on Simplexes and Triangulations Background in Analysis And Topology Upper Semi continuous Multifunctions The Brower s Fixed point Theorem Proof by Non Analytic Methods Proof by Analytic Methods Sperner s Lemma and Brower s Fixed Point Theorem Barycentric Coordinates Generalization Extension in Infinite Dimensions Fixed Point Properties for Closed Boundary Convex Sets Theorems with boundary Conditions Condition on Compactness Multifunctions and Kakutani s Theorem Theory with Boundary Conditions Applications Chapter 3 Metric Fixed Point Theory 45 pages Introduction Banach s Contraction Principle Extensions of the Contraction Principle Generalization Converse of Banach s Contraction Principle Metric Fixed Point Theory in Banach Spaces Metric Fixed Point Theory in Metric Spaces Applications Chapter 4 Order Theoretic Fixed Point Theory 17 pages Introduction Completeness Condition for Posets Conditionally Complete Posets Countably Chain Complete Posets Chain Complete Posets Iterative Fixed Point Theorems The Tarski Kantorovitch Fixed Point Theorem Applications to Functional Equations The Contraction Mapping Theorem The Tarski s Fixed Point Theorems The Knaster Tarski s Theorem Application The Abian Brown Theorem Application An extensive bibliography

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 Point Theory in Metric Type Spaces Ravi P. Agarwal, Erdal KARAPINAR, Donal O'Regan, Antonio Francisco Roldán-López-de-Hierro, 2016-03-24 Written by a team of leading experts in the field this volume presents a self contained

account of the theory techniques and results in metric type spaces in particular in G metric spaces that is the text approaches this important area of fixed point analysis beginning from the basic ideas of metric space topology The text is structured so that it leads the reader from preliminaries and historical notes on metric spaces in particular G metric spaces and on mappings to Banach type contraction theorems in metric type spaces fixed point theory in partially ordered G metric spaces fixed point theory for expansive mappings in metric type spaces generalizations present results and techniques in a very general abstract setting and framework Fixed point theory is one of the major research areas in nonlinear analysis This is partly due to the fact that in many real world problems fixed point theory is the basic mathematical tool used to establish the existence of solutions to problems which arise naturally in applications As a result fixed point theory is an important area of study in pure and applied mathematics and it is a flourishing area of research

Fixed Point Theory In P-vector Spaces
George Xianzhi Yuan, 2025-05-05 This monograph provides an updated development of fixed point theory under a unified framework of the best approximation approach in p vector spaces a core component of nonlinear analysis in mathematics where $p \geq 1$ the same for p below unless specified This book exposes some important contents of the new fixed point theory with highlights in four parts Specifically the book focuses on the development of general new fixed point theory for both single valued and set valued mappings under the framework of p vector and locally convex spaces for $p \geq 1$ including topological vector spaces and locally convex spaces as special cases It provides affirmative answers to the Schauder conjecture under the general setting of p vector spaces and locally p convex spaces The book establishes best approximation results for upper semicontinuous and 1 set contractive set valued mappings which are used as tools to establish new fixed point theorems for non self set valued mappings with either inward or outward set conditions under various situations These results improve or unify corresponding results in the existing literature for nonlinear analysis and lay the foundation for the development of fixed point theorems in topological vector spaces since Schauder's conjecture was raised in 1930 In addition this book demonstrates the power of the fixed point theorem by showing the equivalence among the Ekeland variational principle Takahashi minimization theorem Oettli-Théra theorem Caristi Kirk type fixed point theorem and related principles in nonlinear functional analysis Overall this book provides an accessible way to establish the new theory in the development of fixed point theorems and results It is designed to be understandable for senior undergraduate students majoring in mathematics physical sciences social sciences and related fields We expect that this monograph will serve as a staple textbook for undergraduate and postgraduate students a reference book for researchers in the field of fixed point theory in nonlinear functional analysis and an accessible resource for general readers in mathematics and related disciplines

Metric Fixed Point Theory Pradip Debnath, Nabanita Konwar, Stojan Radenović, 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

Fixed Point Theory and Its Applications Robert F. Brown, 1988 Represents the proceedings of an informal three day seminar held during the International Congress of Mathematicians in Berkeley in 1986 This work covers topics including topological fixed point theory from both the algebraic and geometric viewpoints and the fixed point theory of nonlinear operators on normed linear spaces and its applications

The Study of Minimax Inequalities and Applications to Economies and Variational Inequalities George Xian-Zhi Yuan, 1998 This book provides a unified treatment for the study of the existence of equilibria of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities which strongly depend on his infinite dimensional version of the classical Knaster Kuratowski and Mazurkiewicz Lemma KKM Lemma in 1961 Studied are applications of general system versions of minimax inequalities and generalized quasi variational inequalities and random abstract economies and its applications to the system of random quasi variational inequalities are given

Positive Operators and Fixed-Point Theorems with Applications S. A. Mohiuddine, Anupam Das, Dragan S. Djordjević, 2025-05-29 This book presents original research on the theory of positive operators alongside fixed point theorems and their diverse applications It introduces various positive operators and explores their approximation properties including Korovkin type theorems Voronovskaja type results convergence rate and other related findings Additionally the book addresses the existence of solutions for various differential and integral equations in different Banach spaces by using Darbo type fixed point theorems This book also presents an interplay between positive operators and fixed point theory Each chapter is self contained addressing a current problem and outlining solutions and potential applications The chapters provide sufficient background to ensure that new definitions and results can be understood independently

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Recent Developments in Fixed-Point Theory Mudasir Younis, Lili Chen, Deepak Singh, 2024-07-03 This contributed book has a comprehensive collection of 17 carefully curated chapters that delve into the latest advancements in fixed point theory and its diverse applications It bridges the gap between theory and practicality providing readers with a deep understanding of fundamental theorems related to the existence and uniqueness of maps The book covers a wide array of applications each showcasing the relevance of fixed point theory in various domains Readers will explore applications dealing with topological properties the resolution of integral equations across multiple classes nonlinear differential equations fractional differential equations dynamic programming problems and engineering science related challenges This diverse range of topics ensures that the book caters to both theoretical researchers and practitioners seeking real world solutions The primary feature of the book is the pictorial depictions of examples making complex concepts more accessible and understandable These visual representations enhance the learning experience enabling readers to grasp the enunciated outcomes effortlessly The book stands as an essential reference for scholars researchers and professionals interested in the theoretical foundations and practical implications of fixed point theory Its blend of theoretical insights and real world applications makes it an indispensable addition to the field of mathematics and its interdisciplinary applications

Computational Methods In Nonlinear Analysis: Efficient Algorithms, Fixed Point Theory And Applications Ioannis K Argyros, Said Hilout, 2013-07-11 The field of computational sciences has seen a considerable development in mathematics engineering sciences and economic equilibrium theory Researchers in this field are faced with the problem of solving a variety of equations or variational inequalities We note that in computational sciences the practice of numerical analysis for finding such solutions is essentially connected to variants of Newton s method The efficient computational methods for finding the solutions of fixed point problems nonlinear equations and variational inclusions are the first goal of the present book The second goal is the applications of these methods in nonlinear problems and the connection with fixed point theory This book is intended for researchers in computational sciences and as a reference book for an advanced computational methods in nonlinear analysis We collect the recent results on the convergence analysis of numerical algorithms in both finite dimensional and infinite dimensional spaces and present several applications and

connections with fixed point theory The book contains abundant and updated bibliography and provides comparison between various investigations made in recent years in the field of computational nonlinear analysis

Computing Equilibria and Fixed Points Zaifu Yang, 2013-04-17 Computing Equilibria and Fixed Points is devoted to the computation of equilibria fixed points and stationary points This volume is written with three goals in mind i To give a comprehensive introduction to fixed point methods and to the definition and construction of Gröbner bases ii To discuss several interesting applications of these methods in the fields of general equilibrium theory game theory mathematical programming algebra and symbolic computation iii To introduce several advanced fixed point and stationary point theorems These methods and topics should be of interest not only to economists and game theorists concerned with the computation and existence of equilibrium outcomes in economic models and cooperative and non cooperative games but also to applied mathematicians computer scientists and engineers dealing with models of highly nonlinear systems of equations or polynomial equations

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