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Topics in metric fixed point theory

RAMANATH GURTEER & W. A. KILMER



Topics In Fixed Point Theory

Erdal Karapinar, Ravi P. Agarwal



Topics In Fixed Point Theory:

Topics in Metric Fixed Point Theory Kazimierz Goebel, W. A. Kirk, 1990 Metric Fixed Point Theory has proved a flourishing area of research for many mathematicians This book aims to offer the mathematical community an accessible self contained account which can be used as an introduction to the subject and its development It will be understandable to a wide audience including non specialists and provide a source of examples references and new approaches for those currently working in the subject Topics in Fixed Point Theory Saleh Almezal, Qamrul Hasan Ansari, Mohamed Amine Khamsi, 2013-11-30

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 **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 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.

Topics in Fixed Point Theory Saleh Almezal, Qamrul Hasan Ansari, Mohamed Amine Khamsi, 2013-10-23. The purpose of this contributed volume is to provide a primary resource for anyone interested in fixed point theory with a metric flavor. The book presents 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. Key topics covered include Banach contraction theorem, hyperconvex metric spaces, modular function spaces, fixed point theory in ordered sets, topological fixed point theory for set valued maps, coincidence theorems, Lefschetz and Nielsen theories, systems of nonlinear inequalities, iterative methods for fixed point problems and the Ekeland's variational principle.

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 mappings with applications to quadratic integral equations, recent results on fixed point theory for cyclic mappings with applications to the study of functional equations, the generalization of the Banach fixed point theorem on Branciari metric spaces, the existence of fixed points for a certain class of mappings satisfying an implicit contraction, fixed point results for a class of mappings satisfying a certain contraction involving extended simulation functions, the solvability of a coupled fixed point problem under a finite number of equality constraints, the concept of generalized metric spaces for which the authors extend some well known fixed point results and a new fixed point theorem that helps in establishing a Kelisky-Rivlin type result for q -Bernstein polynomials and modified q -Bernstein polynomials. The book is a valuable resource for a wide audience including graduate students and researchers.

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.

Modern Topics Metrical Fixed Point Theory Mihai Turinici, 2025. Metrical Fixed Point Theory originating from the 1922 Banach Fixed Point Theorem is one of the most dynamic areas within Operator Equations Theory. This book aims to discuss the foundational aspects of this theory focusing on questions of existence, uniqueness, and approximation in operator equations, whether explicit or implicit, anticipative or non anticipative, across standard, ordered, and relational metric spaces. Key themes include implicit methods for analyzing metrical contractions, factorial techniques for reducing coincidence point problems to standard fixed point ones, homotopical fixed point results in gauge spaces with ordered metric space parameters, and constant class reduction of PPF dependent fixed point results. The book is structured into four chapters. Chapter 1 provides an overview of essential preliminary concepts. Chapter 2 delves into various contraction classes within bi relational, local Branciari, and ordered metric spaces. Chapter 3 applies maximal techniques to address the discussed questions, and Chapter 4 explores additional topics including contractive type conditions derived from self and non self maps. Through this structure, the book offers a comprehensive view of the core aspects and applications of Metrical Fixed Point Theory.

Fixed Point Theory and Its

Related Topics II, 2021-10-11 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 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 Best Approximation: The KKM-map Principle S.P. Singh,B. Watson,P. Srivastava,2013-04-17 The aim of this volume is to make available to a large audience recent material in nonlinear functional analysis that has not been covered in book format before Here several topics of current and growing interest are systematically presented such as fixed point theory best approximation the KKM map principle and results related to optimization theory variational inequalities and complementarity problems Illustrations of suitable applications are given the links between results in various fields of research are highlighted and an up to date bibliography is included to assist readers in further studies Audience This book will be of interest to graduate students researchers and applied mathematicians working in nonlinear functional analysis operator theory approximations and expansions convex sets and related geometric topics and game theory

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 **Elementary Fixed Point Theorems** P.V. Subrahmanyam, 2019-01-10 This book provides a primary resource in basic fixed point theorems due to Banach Brouwer Schauder and Tarski and their applications Key topics covered include Sharkovsky's theorem on periodic points Thron's results on the convergence of certain real iterates Shield's common fixed theorem for a commuting family of analytic functions and Bergweiler's existence theorem on fixed points of the composition of certain meromorphic functions with transcendental entire functions Generalizations of Tarski's theorem by Merrifield and Stein and Abian's proof of the equivalence of Bourbaki Zermelo fixed point theorem and the Axiom of Choice are described in the setting of posets A detailed treatment of Ward's theory of partially ordered topological spaces culminates in Sherrer fixed point theorem It elaborates Manka's proof of the fixed point property of arcwise connected hereditarily unicoherent continua based on the connection he observed between set theory and fixed point theory via a certain partial order Contraction principle is provided with two proofs one due to Palais and the other due to Barranga Applications of the contraction principle include the proofs of algebraic Weierstrass preparation theorem a Cauchy Kowalevsky theorem for partial differential equations and the central limit theorem It also provides a proof of the converse of the contraction principle due to Jachymski a proof of fixed point theorem for continuous generalized contractions a proof of Browder Gohde Kirk fixed point theorem a proof of Stalling's generalization of Brouwer's theorem examine Caristi's fixed point theorem and highlights Kakutani's theorems on common fixed points and their applications **Fixed Point Theory and Variational Principles in Metric Spaces** Qamrul Hasan Ansari, Daya Ram Sahu, 2023-09-21 The book is designed for undergraduates graduates and researchers of mathematics studying fixed point theory or nonlinear analysis It deals with the fixed point theory for not only single valued maps but also set valued maps The text is divided into three parts fixed point theory for single valued mappings continuity and fixed point aspects of set valued analysis and variational principles and their equilibrium problems It comprises a comprehensive study of these topics and includes all important results derived from them The applications of fixed point principles and variational principles and their generalizations to differential equations and optimization are covered in the text An elementary treatment of the theory of equilibrium problems and equilibrium version of Ekeland's variational principle is also provided New topics such as equilibrium problems variational principles Caristi's fixed point theorem and Takahashi's minimization theorem with their applications are also included **Topological Fixed Points Theory and Its Applications**, 2003

Fixed Points Ūrii Alekseevich Shashkin, 1989 The theory of fixed points finds its roots in the work of Poincare Brouwer and Sperner and makes extensive use of such topological notions as continuity compactness homotopy and the degree of a mapping Fixed point theorems have numerous applications in mathematics most of the theorems ensuring the existence of solutions for differential integral operator or other equations can be reduced to fixed point theorems In addition these theorems are used in such areas as mathematical economics and game theory This book presents a readable exposition of

fixed point theory The author focuses on the problem of whether a closed interval square disk or sphere has the fixed point property Another aim of the book is to show how fixed point theory uses combinatorial ideas related to decomposition triangulation of figures into distinct parts called faces simplexes which adjoin each other in a regular fashion All necessary background concepts such as continuity compactness degree of a map and so on are explained making the book accessible even to students at the high school level In addition the book contains exercises and descriptions of applications Readers will appreciate this book for its lucid presentation of this fundamental mathematical topic 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 **Handbook of Topological Fixed Point Theory** Robert F. Brown, Massimo Furi, L.

Gorniewicz, Boju Jiang, 2005-12-05 This book is the first in the world literature presenting all new trends in topological fixed point theory Until now all books connected to the topological fixed point theory were devoted only to some parts of this theory This book will be especially useful for post graduate students and researchers interested in the fixed point theory particularly in topological methods in nonlinear analysis differential equations and dynamical systems The content is also likely to stimulate the interest of mathematical economists population dynamics experts as well as theoretical physicists exploring the topological dynamics Fixed Point Theory in Generalized Metric Spaces Erdal Karapinar, Ravi P.

Agarwal, 2022-12-07 This book presents fixed point theory one of the crucial tools in applied mathematics functional analysis and topology which has been used to solve distinct real world problems in computer science engineering and physics The authors begin with an overview of the extension of metric spaces Readers are introduced to general fixed point theorems while comparing and contrasting important and insignificant metric spaces The book is intended to be self contained and serves as a unique resource for researchers in various disciplines *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

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