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Topics in metric fixed point theory

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Topics In Fixed Point Theory

**Yeol Je Cho, Mohamed Jleli, Mohammad
Mursaleen, Bessem Samet, Calogero
Vetro**

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

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

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 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 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

Modern Topics In Metrical Fixed Point Theory Mihai Turinici, 2025-02-20 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 *Modern Topics Metrical Fixed Point Thehb* 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

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 Frchet 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

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

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