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Fixed Point Theorm In Probabilistic Analysis

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Probabilistic operator theory is the branch of probabilistic analysis which is concerned with the study of operator-valued random variables and their properties. The development of a theory of random operators is of interest in its own right as a probabilistic generalization of (deterministic) operator theory and just as operator theory is of fundamental importance in the study of operator equations, the development of probabilistic operator theory is required for the study of various classes of random equations.

Definition.1.1. Any $\aleph$-valued random variable $x(\square)$ which satisfies the condition $\square(\square) : T(\square)\square(\square) = p(\square)(\square) = 1$ is said to be a random solution of the random operator equation $T(\square)x(\square) = p(\square)$.

Definition.1.2: An $\aleph$-valued random variable $\square(\square)$ is said to be a fixed point of the random operator $T(\square)$ if $\square(\square)$ is a random solution of the equation $T(\square)\square(\square) = \square(\square)$.

The study of fixed point theorems for random operators was initiated by Špaček and Hanš[7]. The first systematic investigation of random fixed point theorems was carried out by Hanš[7]. Because of the wide applicability of Banach's contraction mapping theorem in the study of deterministic operator equations, Špaček and Hanš directed their attention to probabilistic versions of Banach's theorem and used their results to prove the existence, uniqueness, and measurability of solutions of integral equations with random kernels.

Definition.1.3 (A random operator $T(\square)$ on a Banach space $\aleph$ with domain $D(T(\square))$ is said to be a random contraction operator if there exists a nonnegative real-valued random variable such that $k(\square) < 1$, and such that $\omega_1 \square\square T(\square)\omega_1 - T(\square)\omega_2 \square\square\square k(\square)\square\square\omega_1 - \omega_2\square\square$ for all $\omega_1, \omega_2 \square\square D(T(\square))$. If $k(\square) = k$ (a constant) for all $\square\square\square$, then $T(\square)$ is called a uniform random contraction operator.

Theorem. 1.4 Let $\aleph$ be a separable Banach space, and let $T(\square)$ be a continuous random operator on $\aleph$ to itself such that

$$\mu\left[\bigcup_{m=1}^{\infty}\bigcup_{n=1}^{\infty}\bigcap_{x_1,x_2}\bigcap_{x_1,x_2}\left\{\omega : \left\|T^{n}(\omega)x_1 - T^{n}(\omega)x_2\right\| \le \left(1-\frac{1}{m}\right)\left\|x_1 - x_2\right\|\right\}\right] = 1,$$

Where for every $\square\square\square$, $x \in \aleph$, and $n = 1, 2, \ldots$, we put $T^{n}(\square)x = T(\square)x$, and $T^{n}(\square)x = T(\square)(T(\square)x)$. Then, There exists an $\aleph$-valued random variable $\square(\square)$ which is the unique fixed point of $T(\square)$; that is if $\square(\square)$ is another fixed point, then $\square(\square) = \square(\square)$.

PROOF: Let E denote those elements of $\square$ belonging to the set

$$\bigcup_{m=1}^{\infty}\bigcup_{n=1}^{\infty}\bigcap_{x_1,x_2}\bigcap_{x_1,x_2}\left\{\omega : \left\|T^{n}(\omega)x_1 - T^{n}(\omega)x_2\right\| \le \left(1-\frac{1}{m}\right)\left\|x_1 - x_2\right\|\right\}$$

for with $T(\square)$ is continuous. Clearly $E \square P$, and by hypothesis, $\square(E) = 1$. Let the mapping $\square(\square) : \square\square\aleph$ be defined as follows : For every $\square\square E$, $\square(\square)$ is equal to the unique fixed point of $T(\square)$; and for every $\square\square E$, put $\square(\square) = \square$ (the null element of $\aleph$). Then $T(\square)\square(\square) = \square(\square)$.

Now, we proceed to establish the measurability of the fixed point $\square(\square)$. Let $x_0(\square)$ be an arbitrary $\aleph$-valued random variable, and put $x_n(\square) = T(\square)x(\square)$. $x_n(\square)$ is an $\aleph$-valued random variable and a sequence of

Fixedpoint Theory And Its Applications Proceedings

Michael Seilmaier

Fixedpoint Theory And Its Applications Proceedings:

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 Fixed Point Theory And Applications - Proceedings Of The Second International Conference Kok Keong Tan,1992-08-08 This volume contains current works of researchers from twelve different countries on fixed point theory and applications Topics include in part nonexpansive mappings multifunctions minimax inequalities applications to game theory and computation of fixed points It is valuable to pure and applied mathematicians as well as computing scientists and mathematical economists *Fixed Point Theory and Its Applications : Proceedings* Srinivasa Swaminathan,1976 **Fixed Point Theory and Its Applications** International congress of Mathematicians,1988 *Fixed Point Theory and Its Applications* Dalhousie University,1976 **Proceedings of the International Conference on Fixed-Point Theory and Its Applications** Simeon Reich,2003-01-01 **Topological Fixed Point Theory and Applications** Boju Jiang,2006-11-14 This selection of papers from the Beijing conference gives a cross section of the current trends in the field of fixed point theory as seen by topologists and analysts Apart from one survey article they are all original research articles on topics including equivariant theory extensions of Nielsen theory periodic orbits of discrete and continuous dynamical systems and new invariants and techniques in topological approaches to analytic problems Fixed Point Theory and Its Applications Jacek Jachymski,Simeon Reich,2007 **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 **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 Fixed Point Theory and Applications Kok Keong Tan,1992 **An Introduction to Nonlinear Analysis and Fixed Point Theory** Hemant Kumar Pathak,2018-05-19 This book systematically introduces the theory of nonlinear analysis providing an overview of topics such as geometry of Banach spaces differential calculus in Banach spaces monotone operators and fixed point theorems It also discusses degree theory nonlinear matrix equations control theory differential and integral equations and inclusions The book presents surjectivity theorems variational inequalities stochastic game theory and mathematical biology along with a large number of applications of these theories in various other disciplines Nonlinear analysis is characterised by its applications in numerous interdisciplinary fields ranging from engineering to space science hydromechanics to astrophysics chemistry to biology theoretical mechanics to biomechanics and economics to stochastic game theory Organised into ten chapters the book shows the elegance of the subject and its deep rooted concepts and techniques which provide the tools for developing more realistic and accurate models for a variety of phenomena encountered in diverse applied fields It is intended for graduate and undergraduate students of mathematics and engineering who are familiar with discrete mathematical structures differential and integral equations operator theory measure theory Banach and Hilbert spaces locally convex topological vector spaces and linear functional analysis Fixed Point Theory and Its Applications ,2013 **Handbook of Geometric Topology** R.B. Sher,R.J. Daverman,2001-12-20 Geometric Topology is a foundational component of modern mathematics involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an

introduction to the subject and as a wide ranging resouce for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date overview of this flourishing branch of mathematics *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-ChungWu,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 *Handbook of Topological Fixed Point Theory* Robert F. Brown,2005-06-10 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 and Its Applications** Sompong Dhompongsa,2008 **Singularity Theory**

and its Applications David Mond,James Montaldi,2006-11-14 A workshop on Singularities Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications The proceedings fall into two halves Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory bifurcation theory and applications in the sciences The papers are orginal research stimulated by the symposium and workshops All have been refereed and none will appear elsewhere The main topic deformation theory is represented by several papers on descriptions of the bases of versal deformations and several more on descriptions of the generic fibres Other topics include stratifications and applications to differential geometry **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 0 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 0 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 Th ra 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

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