

Fixed Point Theorem 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 \mathbb{N} -valued random variable $\Omega(\cdot)$ which satisfies the conditions $\Omega(\{T\}) \in T$, $\Omega(\{I\}) \in I$ and $\Omega(\{0\}) = 0$ is said to be a random solution of the random operator equation $T(\Omega) \circ \Omega(\cdot) = p(\Omega) \circ \Omega$.

Definition 1.2: Any \mathbb{N} -valued random variable $\Omega(\cdot)$ is said to be a fixed point of the random operator $T(\Omega) \circ \Omega(\cdot) = p(\Omega) \circ \Omega$ if $\Omega(\cdot)$ is a random solution of the equation $T(\Omega) \circ \Omega(\cdot) = \Omega(\cdot) \circ \Omega$.

The study of fixed point theorems for random operators was initiated by Spach and Hans^[1]. The first systematic investigation of random fixed point theorems was carried out by Hans^[2]. Because of the wide applicability of Banach's contraction mapping theorem in the study of deterministic operator equations, Spach and Hans 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 $T(\cdot)$ on a Banach space \mathbb{N} with domain $D(T(\cdot))$ is said to be a random contraction operator if there exists a nonnegative real-valued random variable such that $k(\cdot) < 1$ and such that $\omega_1, \omega_2 \in D(T(\cdot))$, $p = T(\cdot) \circ \omega_1, q = T(\cdot) \circ \omega_2$, $k(\cdot) \circ \omega_1 \circ \omega_2 \circ \omega_1$ for all $\omega_1, \omega_2 \in D(T(\cdot))$, $T(k(\cdot)) = k$ constantly for all $\omega \in \Omega$, then $T(\cdot)$ is called a uniform random contraction operator.

Theorem 1.4 Let \mathbb{N} be a separable Banach space, and let $T(\cdot)$ be a continuous random operator on \mathbb{N} to itself such that

$$\mu \left[\bigcap_{n=1}^{\infty} \bigcap_{k=1}^{\infty} \left\{ \omega : \|T^n(\omega)x_k - T^n(\omega)x_l\| \leq \left(1 - \frac{1}{m}\right) \|x_k - x_l\| \right\} \right] = 1,$$

Where for every $\omega \in \Omega$, $x_k \in \mathbb{N}$, and $n = 1, 2, \dots$, we put $T^n(\omega)x_k = T(\omega) \circ x_k$, and $T^n(\omega)x_k = T(\omega) \circ T(\omega) \circ x_k$. Then, There exists an \mathbb{N} -valued random variable $\Omega(\cdot)$ which is the unique fixed point of $T(\cdot)$, that is if $\Omega(\cdot)$ is another fixed point, then $\Omega(\cdot) = \Omega(\cdot)$.

PROOF: Let E denote those elements of Ω belonging to the set

$$\bigcap_{n=1}^{\infty} \bigcap_{k=1}^{\infty} \left\{ \omega : \|T^n(\omega)x_k - T^n(\omega)x_l\| \leq \left(1 - \frac{1}{m}\right) \|x_k - x_l\| \right\}$$

for, with $T(\cdot)$ is continuous. Clearly $E \in \mathcal{F}$, and by hypothesis, $\Omega(E) = 1$. Let the mapping $\Omega(\cdot) : \Omega \rightarrow \mathbb{N}$ be defined as follows : For every $\omega \in E$, $\Omega(\omega)$ is equal to the unique fixed point of $T(\omega)$, and for every $\omega \in E^c$, put $\Omega(\omega) = \emptyset$ (the null element of \mathbb{N}). Then $T(\Omega) \circ \Omega(\cdot) = \Omega(\cdot) \circ \Omega$.

Now, we proceed to establish the measurability of the fixed point $\Omega(\cdot)$. Let $\omega_k(\cdot)$ be an arbitrary \mathbb{N} -valued random variable, and put $\omega_k(\cdot) = T(\cdot) \circ \omega_k(\cdot)$. $\omega_k(\cdot)$ is an \mathbb{N} -valued random variable and a sequence of

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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**

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introduction to the subject and as a wide ranging resource 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-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 *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 original 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 $p \geq 1$ 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

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