Probabilistic Metric Spaces A Sklar

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Probabilistic Metric Spaces A Sklar
A metric space is a pair (S, d) where S is a set and d is a metric on S. In 1942 K. Menger, who had played a major role in the development of the theory of metric spaces (see [Menger 1928, 1930, 1932, 1954]), proposed a probabilistic generalization of this theory.

Probabilistic Metric Spaces | B. Schweizer and A. Sklar ...
The corresponding triangle functions □ W , □ □ , and □ M are continuous and satisfy e). A probabilistic metric space is a triple (S, F, □) , where S is a set, F is a function from S × S into □ + , □ is a triangle function, such that for any p, q, r □ S , I) F (p, p) = □ 0 ; II) F (p, q) □ □ 0 if p □ q ;

Probabilistic metric space - Encyclopedia of Mathematics
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The idea of a Probabilistic Metric Space (PM space) was introduced by Menger. It generalizes that of a metric space, a distribution function Fp, is associated with every pair of points p and q of a...

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The Probabilistic Metric Space Similarly to a probabilistic space, and probabilistic metric space (PM Space) is a triple HS, F, tL. S is understood to be a nonempty set whose elements are points, thus S is a space. F is a distance function whose details will be explored in a little while. t is a triangle functions, which will also be discussed a bit later. A PM Space must obey these four conditions: 1. Flp, pM = e0

Probabilistic Metric Spaces I
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This distinctly nonclassical treatment focuses on developing aspects that differ from the theory of ordinary metric spaces, working directly with probability distribution functions rather than random variables. The two-part treatment begins with an overview that discusses the theory's historical evolution, followed by a development of related mathematical machinery. The presentation defines all needed concepts, states all necessary results, and provides relevant proofs. The second part opens with definitions of probabilistic metric spaces and proceeds to examinations of special classes of probabilistic metric spaces, topologies, and several related structures, such as probabilistic normed and inner-product spaces. Throughout, the authors focus on developing aspects that differ from the theory of ordinary metric spaces, rather than simply transferring known metric space results to a more general setting.

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Fixed point theory in probabilistic metric spaces can be considered as a part of Probabilistic Analysis, which is a very dynamic area of mathematical research. A primary aim of this monograph is to stimulate interest among scientists and students in this fascinating field. The text is self-contained for a reader with a modest knowledge of the metric fixed point theory. Several themes run through this book. The first is the theory of triangular norms (t-norms), which is closely related to fixed point theory in probabilistic metric spaces. Its recent development has had a strong influence upon the fixed point theory in probabilistic metric spaces. In Chapter 1 some basic properties of t-norms are presented and several special classes of t-norms are investigated. Chapter 2 is an overview of some basic definitions and examples from the theory of probabilistic metric spaces. Chapters 3, 4, and 5 deal with some single-valued and multi-valued probabilistic versions of the Banach contraction principle. In Chapter 6, some basic results in locally convex topological vector spaces are used and applied to fixed point theory in vector spaces. Audience: The book will be of value to graduate students, researchers, and applied mathematicians working in nonlinear analysis and probabilistic metric spaces.

This book provides a comprehensive foundation in Probabilistic Normed (PN) Spaces for anyone conducting research in this field of mathematics and statistics. It is the first to fully discuss the developments and the open problems of this highly relevant topic, introduced by A N Serstnev in the early 1960s as a response to problems of best approximations in statistics. The theory was revived by Claudi Alsina, Bert Schweizer and Abe Sklar in 1993, who provided a new, wider definition of a PN space which quickly became the standard adopted by all researchers. This book is the first wholly up-to-date and thorough investigation of the properties, uses and applications of PN spaces, based on the standard definition. Topics covered include: What are PN spaces?The topology of PN spacesProbabilistic norms and convergenceProducts and quotients of PN spacesD-boundedness and D-compactnessNormabilityInvariant and semi-invariant PN spacesLinear operatorsStability of some functional equations in PN spacesMenger's 2-probabilistic normed spaces The theory of PN spaces is relevant as a generalization of deterministic results of linear normed spaces and also in the study of random operator equations. This introduction will therefore have broad relevance across mathematical and statistical research, especially those working in probabilistic functional analysis and probabilistic geometry. Contents:PreliminariesProbabilistic Normed SpacesThe Topology of PN SpacesProbabilistic Norms and ConvergenceProducts and Quotients of PN SpacesD-Boundedness and D-CompactnessNormabilityInvariant and Semi-Invariant PN SpacesLinear OperatorsStability of Some Functional Equations in PN SpacesMenger's 2-Probabilistic Normed Spaces Readership: Post graduate students and researchers in the field of Probabilistic Normed Spaces. Key Features:The theory of PN spaces is relevant as a generalization of deterministic results of linear normed spaces and also in the study of random operator equationsDeals with all the developed ideas in PN spacesA good reference book for post graduate students and researchers in this field as it identifies the developments and open problems in PN spacesKeywords:Probabilistic Normed Spaces;Normability in PN Spaces;D-Boundedness;D-Compactness;Topology in PN Spaces;Linear Operators in PN Spaces;Menger's 2-Probabilistic Normed Spaces;Invariant and Semi-Invariant PN SpacesReviews: □This book provides a good opportunity for scholars and students to get familiar with the theory of PN spaces and to acquire the basic knowledge in this field.□ Zentralblatt MATH

In this book, generally speaking, some properties of bitopological spaces generated by certain non-symmetric functions are studied. These functions, called "probabilistic quasi-pseudo-metrics" and "fuzzy quasi-pseudo-metrics", are generalisations of classical quasi-pseudo metrics. For the sake of completeness as well as for convenience and easy comparison, most of the introductory paragraphs are mainly devoted to fundamental notions and results from the classical -- deterministic or symmetric -- theory.

The purpose of this book is to give a comprehensive introduction to the study of non-linear operator theory in probabilistic metric spaces. This book is introduced as a survey of the latest and new results on the following topics: Basic theory of probabilistic metric spaces; Fixed point theorems for single-valued and multi-valued mappings in probabilistic metric spaces; Ekeland's variational principle and Caristi's fixed point theorem in probabilistic metric spaces; Coincidence point theorems, minimisation and fixed degree theorems in probabilistic metric spaces; Probabilistic contractors, accretive mappings and topological degree in probabilistic normed spaces; Nonlinear semigroups and differential equations in probabilistic metric spaces; KKM theorems, minimax theorems and variational inequalities.

This volume gives a state of the art of triangular norms which can be used for the generalization of several mathematical concepts, such as conjunction, metric, measure, etc. 16 chapters written by leading experts provide a state of the art overview of theory and applications of triangular norms and related operators in fuzzy logic, measure theory, probability theory, and probabilistic metric spaces. Key Features: - Complete state of the art of the importance of triangular norms in various mathematical fields - 16 self-contained chapters with extensive bibliographies cover both the theoretical background and many applications - Chapter authors are leading authorities in their fields - Triangular norms on different domains (including discrete, partially ordered) are described - Not only triangular norms but also related operators (aggregation operators, copulas) are covered - Book contains many enlightening illustrations · Complete state of the art of the importance of triangular norms in various mathematical fields · 16 self-contained chapters with extensive bibliographies cover both the theoretical background and many applications · Chapter authors are leading authorities in their fields · Triangular norms on different domains (including discrete, partially ordered) are described · Not only triangular norms but also related operators (aggregation operators, copulas) are covered · Book contains many enlightening illustrations

This book discusses the theory of triangular norms and surveys several applied fields in which triangular norms play a significant part: probabilistic metric spaces, aggregation operators, many-valued logics, fuzzy logics, sets and control, and non-additive measures together with their corresponding integrals. It includes many graphical illustrations and gives a well-balanced picture of theory and applications. It is for mathematicians, computer scientists, applied computer scientists and engineers.