

METRIC SPACES OF FUZZY SETS THEORY AND APPLICATIONS

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[Metric Spaces Of Fuzzy Sets Theory And Applications](#)

The primary aim of the book is to provide a systematic development of the theory of metric spaces of normal, upper semicontinuous fuzzy convex fuzzy sets with compact support sets. An additional aim is to sketch selected applications in which these metric space results and methods are essential for a thorough mathematical analysis. This book is distinctly mathematical in its orientation and style. The reader is assumed to have some previous undergraduate level acquaintance with metric spaces ...

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[Metric spaces of fuzzy sets - ScienceDirect](#)

book Metric spaces of fuzzy sets : theory and applications Phil Diamond, Peter Eris Kloeden Published in 1994 in Singapore by World scientific

[Metric spaces in fuzzy set theory - ScienceDirect](#)

Metric spaces of fuzzy sets - ScienceDirect The primary aim of the book is to provide a systematic development of the theory of metric spaces of normal, upper semicontinuous fuzzy convex fuzzy sets with compact support sets, mainly on the base space X . Metric Spaces of Fuzzy Sets: Theory and Applications...

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Metric Spaces Of Fuzzy Sets Theory And Applications Metric Spaces Of Fuzzy Sets Metric Spaces in Fuzzy Set Theory METRIC SPACES IN FUZZY SET THEORY 207 Then if $A, B \in P(X)$, we have: $4w = A \cap B$ Hence Thus $w = \frac{1}{2}(A \cup B)$ This function appears in Hausdorff [8] as an intermediate stage in the evolution of a metric for ...

[Metric Spaces of Fuzzy Sets: Theory and Applications ...](#)

pseudo-metrics (p. metrics) and metrics in fuzzy set theory. We define a uniformity for a metric space on a fuzzy set, using the definition of uniformity given by Hutton [1]. Complementing the results of Hutton [1], we obtain results on the generation of topologies on fuzzy sets by p.q. metrics.

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Metric spaces of fuzzy sets : theory and applications. Singapore ; River Edge, NJ : World Scientific. MLA Citation. Diamond, Phil. and Kloeden, Peter E. Metric spaces of fuzzy sets : theory and applications / Phil Diamond, Peter Kloeden World Scientific Singapore ; River Edge, NJ 1994. Australian/Harvard Citation

[Metric Spaces Of Fuzzy Sets Theory And Applications](#)

Keywords: Fuzzy metric spaces, fuzzy point, fuzzy set 1. Introduction Kramosil and Michalek introduced the notion of fuzzy metric space by generalizing the concept of probabilistic metric space to fuzzy situation our aim is to study the method by which one can generalize the notion of the metric space by setting the distance between two $x, y \in X$ to be non-negative fuzzy number. In fuzzy mathematics, the ...

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~ PDF Fuzzy Sets And Fuzzy Logic Theory And Applications ~ Uploaded By Paulo Coelho, part ii which is devoted to applications of fuzzy set theory and fuzzy logic consists of the remaining eight chapters chapter 10 examines various methods for constructing membership functions of fuzzy sets including the increasingly popular use of neural networks fuzzy sets and fuzzy logic theory and ...

[Fuzzy Multiple Attribute Decision Making Methods And ...](#)

In this paper, fuzzy metric spaces are redefined, different from the previous ones in the way that fuzzy scalars instead of fuzzy numbers or real numbers are used to define fuzzy metric. It is proved that every ordinary metric space can induce a fuzzy metric space that is complete whenever the original one does. We also prove that the fuzzy topology induced by fuzzy metric spaces defined in ...

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[V -Fuzzy metric space and related fixed point theorems ...](#)

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[An Introduction to Fuzzy Set Theory and Fuzzy Logic - An ...](#)

We define a Hausdorff topology on a fuzzy metric space introduced by Kramosil and Michalek [Kybernetika 11 (1975) 326–334] and prove some known results of metric spaces including Baire's theorem ...

[Metric space - Wikipedia](#)

Mapping in fuzzy metric space. KEYWORDS: Common Fixed point, Fuzzy Metric space, Occasionally Weakly Compatible Mapping, Continuous t-norm. 1. INTRODUCTION It proved a turning point in the development of mathematics when the notion of fuzzy set was introduced by Zadeh [24] which laid the foundation of fuzzy mathematics. Kramosil and Michalek ...

[A CONTRACTION THEOREM IN FUZZY METRIC SPACES](#)

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[An Introduction to Metric Spaces - 1st Edition - Dhananjay ...](#)

Theorem 3. is fuzzy metric space; the functions and satisfy the conditions and , respectively. Define a function on X aslf one of the following conditions is satisfied: (I) satisfies condition (15) ...

[Common fixed point theorems in modified intuitionistic ...](#)

The primary aim of the book is to provide a systematic development of the theory of metric spaces of normal, upper semicontinuous fuzzy convex fuzzy sets with compact support sets, mainly on the base space X . An additional aim is to sketch selected applications in which these metric space results and methods are essential for a thorough mathematical analysis. This book is distinctly ...

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then many authors have expansively developed the theory of fuzzy Sets and applications—Especially, Deng [2], Erceg [3], Kavela and Seokkala [4]. kramosil and Michalek[5] have introduced the concept of fuzzy metric spaces in different ways. Recently, many authors have also studied the fixed point theory in these spaces. For more details see [6]. In this work, we obtain sufficiently many of ...

[What is metric space? What are its practical applications ...](#)

In this paper, we introduce the concept of fuzzy mappings in Hausdorff fuzzymetric spaces (in the sense of George and Veeramani (Fuzzy Sets Syst.64:395-399, 1994)). We establish the existence of α -fuzzyfixed point theorems for fuzzy mappings in Hausdorff fuzzy metric spaces, which can be utilized to derive fixed point theorems for multivalued mappings.

[Fuzzy Set Theory - A section of Mathematics](#)

On Fuzzy Metric Spaces and their Applications in Fuzzy Environment By Sondos Abdelrahim Mohammad Eshatya Supervised by Dr. Mohammad Al-Amleh Abstract In this thesis, the fuzzy metric spaces were investigated using different definitions and point of views. Some were applied on regular sets while others were applied on sets of fuzzy points. The concept of complement of fuzzy metric spaces ...

[Fuzzy set - Wikipedia](#)

Since its launching in 1978, the journal Fuzzy Sets and Systems has been devoted to the international advancement of the theory and application of fuzzy sets and systems. The theory of fuzzy sets now encompasses a well organized corpus of basic notions including (and not restricted to) aggregation operations, a generalized theory of relations, specific measures of information content, a ...

[A Fuzzy Metric on the Space of Fuzzy Sets](#)

Keywords: t-norm, fuzzy metric space, occasionally weakly compatible mappings, implicit relations, fixed point. 1 Introduction In 1965, Zadeh [33] introduced the concepts of fuzzy sets. Since then, to use this concept in topology and analysis, many authors have expansively developed the theory of fuzzy sets and applications. For example,

[Fuzzy Metrics and Statistical Metric Spaces](#)

P. Diamond and P. Kloeden (1994) Metric Spaces of Fuzzy Sets: Theory and Applications, World Scientific, Singapore. zbMATH Google Scholar. P. Diamond, P. Kloeden and A. Vladimirov (1998) Spikes, broken planes and the approximation of convex fuzzy sets, Fuzzy Sets and Systems, 99, 225–232. MathSciNet zbMATH CrossRef Google Scholar. P. Diamond and A. Ramer (1993) Approximation of knowledge and ...

[Some Properties of Fuzzy Quasimetric Spaces](#)

Metric spaces and their various generalizations occur frequently in computer science applications. This is the reason why, in this paper, we introduced and studied the concept of fuzzy b-metric space, generalizing, in this way, both the notion of fuzzy metric space introduced by I. Kramosil and J. Michálek and the concept of b-metric space.

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