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# **Metric Spaces Of Fuzzy Sets Theory And Applications**

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## **Metric Spaces Of Fuzzy Sets**

Two classes of metrics are introduced for spaces of fuzzy sets. Their equivalence is discussed and basic properties established. A characterisation of

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compact and locally compact subsets is given in terms of boundedness and  $p$ -mean equicontinuity, and the spaces shown to be locally compact, complete and separable metric spaces.

## **Metric spaces of fuzzy sets - ScienceDirect**

The primary aim of the book is to

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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  $\mathbb{R}^n$ .

## **Metric Spaces of Fuzzy Sets: Theory and Applications ...**

Metric Spaces of Fuzzy Sets: Theory and

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Applications - Phil Diamond, Peter E. Kloeden - Google Books. The primary aim of the book is to provide a systematic development of the theory of metric...

## **Metric Spaces of Fuzzy Sets: Theory and Applications ...**

An analogous result for fuzzy metric

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spaces is: Lemma 3.1. Let  $(X, d, L, R)$  be a fuzzy metric space. If  $L \succ \sim \text{Max}$ , then  $d(x, y)(t) = 0$  for all  $x, y \in X$ . If  $R \prec \sim \text{Min}$ , then  $d(x, y)(t) = 0$  for all  $t > t_l(x, y)$ . Proof. Let  $L \succ \sim \text{Max}$ . Suppose that  $d(x, y)(t) > 0$  for some  $x, y \in X$ . Let  $0 < t < t_l(x, y)$ .

**On fuzzy metric spaces -**



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## **Fuzzy Sets and Systems | Theme: Topology and Metric Spaces ...**

Abstract 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

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numbers are used to define fuzzy metric....

## **(PDF) Fuzzy metric spaces - ResearchGate**

$F((x, y), (x', y'))$  is called fuzzy distance between two fuzzy points. Note that fuzzy metric spaces have fuzzy points as their elements, ie they are sets of fuzzy

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points. EXAMPLE :1Suppose.  $(X, d)$  is an ordinary metric space. The distance of any two fuzzy points  $(x, \mu), (y, \nu)$  in  $X$  is defined as.

## **CONTINUOUS FUZZY MAPPINGS IN FUZZY METRIC SPACE**

Theme : Non-additive set-functions,  
Metric spaces. Volume 379, Pages 1-142

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(15 January 2020) Download full issue. Previous vol/issue. Next vol/issue. Actions for selected articles. ... Note on common fixed point theorems in fuzzy metric spaces using the CLRg property. Jingfeng Tian. Pages 134-137 Download PDF.

**Fuzzy Sets and Systems | Theme :**

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## **Non-additive set ...**

A fuzzy metric space in which every Cauchy sequence is convergent is called complete. It is called compact if every sequence contains a convergent  $\sim$ subsequence. 4. Lennao  $M(x, y, \cdot)$  is non-decreasing for all  $x, y$  in  $X$ . Proof. Suppose  $M(x, y, t) > M(x, y, s)$  for some  $0 < t < s$ . Then  $M(x, y, t) M(y, y, s - t)$

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## **Fixed points in fuzzy metric spaces - ScienceDirect**

In this paper, we present a new coupled  $\Phi$ -contraction principle for  $w$ -compatible mappings with (CLR) property in GV-fuzzy metric spaces. The present work improves the recent

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results of Hu (Fixed Point Theory Appl 2011:363716, 2011), Hu et al. (Fixed Point Theory Appl 2013:220, 2013) and Jain et al. (J Appl Math 2012:961210, 2012). At the end, we provide the significance of the present ...

**Phi  $\Phi$   $\Phi$  -Contraction principle and an open problem in GV ...**



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In mathematics, a metric space is a set together with a metric on the set. The metric is a function that defines a concept of distance between any two members of the set, which are usually called points. The metric satisfies a few simple properties. Informally: the distance from  $x$  to  $y$  is zero if and only if  $x$  and  $y$  are the same point,; the distance

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between two distinct points is positive,

## **Metric space - Wikipedia**

$M(x, y, 1/n) > 1 - 1/n$  for all  $n \in \mathbb{N}$ .

Hence if  $(X, M, *)$  is a fuzzy metric space, then the topological space  $(X, \tau_M)$  is metrizable (see. [7] Theorem 1).

Several properties of ...

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## **(PDF) Uniform continuity in fuzzy metric spaces**

The  $(X, \mathcal{F}, \tau)$ -tuple is called a fuzzy metric space if  $X$  is an arbitrary set,  $\mathcal{F}$  is continuous  $\tau$ -norm, and  $\mathcal{F}$  is a fuzzy set in satisfying the following conditions: for all  $x, y \in X$  and  $t, s > 0$ , (FM-1), (FM-2), if and only if, (FM-3), (FM-4), (FM-5) is left continuous. Note that  $\mathcal{F}$  can be thought of as the

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degree of nearness between and with respect to. Example 6.

## **Some Modified Fixed Point Results in $\psi$ -Fuzzy Metric Spaces**

D. Miheţ, Fuzzy  $\psi$ -contractive mappings in non-Archimedean fuzzy metric spaces. Fuzzy Sets Syst. 159, 739–744 (2008) MathSciNet CrossRef Google Scholar.

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112. D. Mihet, A note on fuzzy contractive mappings in fuzzy metric spaces. Fuzzy Sets Syst. 251, 83–91 (2014) MathSciNet CrossRef Google Scholar.

## **Fixed Point Theorems in Fuzzy Metric Spaces | SpringerLink**

Also, Das and Samanta [6,7, 8] made

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contribution to this field by introducing a notion of soft metric space which is based on soft point of soft sets. Afterwards, Beaula and Gunaseli [4] defined ...

## **(PDF) On soft metric space - ResearchGate**

We discuss fuzzy simplicial sets, and

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their relationship to (a mild generalization of) metric spaces. Namely, we present an adjunction between the categories: a metric realization functor and fuzzy singular complex functor that generalize the usual geometric realization and singular functors. Finally, we show how these constructions relate to persistent

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homology.

## **Fuzzy simplicial sets - Mathematics**

The 3-tuple is called a fuzzy metric space if  $X$  is an arbitrary nonempty set,  $d$  is a continuous  $t$ -norm, and  $F$  is a fuzzy set on  $X$  satisfying the following conditions, for each  $x, y \in X$  and  $t, s > 0$ , (FM-1), (FM-2) if and only if, (FM-3), (FM-4), (FM-5) is continuous. Let



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be a fuzzy metric space.

## **Fixed Point Theorems in Fuzzy Metric Spaces**

The primary aim of this 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. Rating: (not

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