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On fuzzy metric spaces 225 A sequence {x~} in X is called a Cauchy sequence if lim_~ d(x~, x~) = 0. n~ A fuzzy metric space is complete if each Cauchy sequence in X converges. From the inequality (3.1) it follows that in a fuzzy metric space (X, d, L, Max) every convergent sequence is also a Cauchy sequence.

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ON THE FUZZY METRIC PLACES R. Srinivasan*, K.Renganathan** 1 Department of Mathematics, Kongunadu College of Engineering and Technology, Tiruchirappalli, Tamilnadu, India 2 Department of Mathematics, K.Ramakrishnan College of Technology, Trichy ABSTRACT----Zadeh [Zadeh , 1965] introduced the concepts of fuzzy sets in1965 , and in the next

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In this paper, the notion of compact neutrosophic soft metric space is introduced. The concept of neutrosophic soft function and the composition of functions in a neutrosophic sof

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FM-bounded) fuzzy metric spaces from a metric spaces Finally, we present similar results for product fuzzy metric spaces Keywords and phrases:FH-bounded, FR-bounded, FM-bounded, fuzzy metric spaces 2010MSC: 54D20, 54A40, 54E99 1 Introduction In 1965, the concept of fuzzy Sets was introduced by zadeh [1] Since

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In this paper we introduce the concept of a fuzzy metric space. The distance between two points in a fuzzy metric space is a non-negative, upper semicontinuous, normal and convex fuzzy number....

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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 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.

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

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A fuzzy metric space (X, M, ∗) is completable if and only if for each pair of Cauchy sequences {a n} and {b n} in X the following three conditions are fulfilled: (c1) lim n → M (a n, b n, s) = 1 for some s > 0 implies lim n → M (a n, b n, t) = 1 for all t > 0. (c2) lim n → M (a n, b n, t) > 0 for all t > 0. (c3)

On completable fuzzy metric spaces - ScienceDirect
A L-fuzzy metric space is said to be complete if and only if every Cauchy sequence is convergent. Henceforth, we assume that T is a continuous t-norm on lattice L such that for every □ □ L □ {0 L, 1 L}, there is a □ □ L □ {0 L, 1 L} such that T n-1 (N (□),..., N (□)) > L N (□). For more information see . Theorem 2.12. Every L-fuzzy metric space is normal. Proof

On the L-fuzzy topological spaces - ScienceDirect
M (x, y, 1 /n) > 1 − 1 /n } for all n ∈ N. Hence if (X, M , ∗) is a fuzzy. metric space, then the topological space (X, □ M) is metrizable (see. [7] Theorem 1). Several properties of ...

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metric spaces which includes M-convergence, M-Cauchy sequences and M-completeness, then foll owed by the main result in this chapter which is Banach contractive mapping theorem in M-fuzzy metric...

(PDF) M FUZZY METRIC SPACE - researchgate.net
A fuzzy metric space is an ordered triple (X, M, ∗) where X is a nonempty set, ∗ is a continuous t-norm, and M is a fuzzy set on X × X × (0, + ∞) satisfying the following conditions, for all x, y, z ∈ X, s, t > 0:

Answering an open question in fuzzy metric spaces ...
There are so many approaches to define fuzzy metric spaces. The researcher like Kaleva (1980),George (1994),Gregory (2000),etc. They are using real numbers to measure the distance between fuzzy sets. The problem is that they are using different measure in different problems in fuzzy environment.

CONTINUOUS FUZZY MAPPINGS IN FUZZY METRIC SPACE
The concept of fuzzy metric spaces has recently been introduced in different ways by many authors based on fuzzy points and fuzzy distance, for instance, see [20, 22]. In [12], the authors have ...

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In this chapter, we study the fixed point theory in fuzzy metric spaces. This subject is very important in fuzzy nonlinear operator theory. In Section 5.1, we define weak compatible mappings in fuzzy metric

spaces and prove some common fixed point theorems for four mappings satisfying some contractions.

Fixed Point Theorems in Fuzzy Metric Spaces | SpringerLink
Let (X,M,) be a KM-fuzzy quasi-pseudo-metric space. Then, for each x,y X the function M(x,y,) is nondecreasing. Proof. Let x,y X and 0 t < s. Then M(x,y,s) M(x,x,s t) M(x,y,t) = M(x,y,t). Given a KM-fuzzy quasi-pseudo-metric space (X,M,) we define the open

Fuzzyquasi-metric spaces
George and Veeramani gave in [3] an interesting notion of fuzzy metric space (X,M,) (which is a slight modification of the one given by Kramosil and Michalek [8]). Recently, it has been introduced in [7] the concept of fuzzy quasi-metric space that generalizes the above notion of fuzzy metric space.

On completion of fuzzy quasi-metric spaces
The 3-tuple is said to be an -fuzzy metric space if is an arbitrary (nonempty) set, is a continuous -norm on and is an -fuzzy set on satisfying the following conditions for every in and in :