

On The Fuzzy Metric Places

In this paper, we define precompact set in intuitionistic fuzzy metric spaces and prove that any subset of an intuitionistic fuzzy metric space is compact if and only if it is precompact and complete.

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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.

On fuzzy metric spaces - ScienceDirect

Fuzzy Sets and Systems 12 (1984) 215-229 North-Holland 215 ON FUZZY METRIC SPACES O s m o K A L E V A and S e p p o S E I K K A L A Department of Mathematics, Faculty of Technology, University of Oulu, SF-90570 Oulu 57, Finland Received October 1980 Revised May 1981 In this paper we introduce the concept of a fuzzy metric space.

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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 in 1965 , and in the next

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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

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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 for fuzzy metric spaces.

On some results in fuzzy metric spaces - ScienceDirect

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...

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Abstract. Zadeh [Zadeh , 1965] introduced the concepts of fuzzy sets in 1965 , and in the next decade Kramosil and Michalek [Kramosil & Michalek ,1975] introduced the concept of fuzzy metric space with the help of continuous t norms in 1975 which opened an avenue for further development of analysis in such spaces which have ...

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In this paper, first we introduce the concept of fuzzy metric type space and consider the topology induced by a fuzzy metric type. Next, we consider the complete fuzzy metric type spaces and prove that any G set in a complete metric type space is a complete fuzzy metrizable type space. 1. Preliminaries

On the Topology of Fuzzy Metric Type Spaces

George and Veeramani modified the concept of fuzzy metric space introduced by Kramosil and Michalek and defined the Hausdorff topology of fuzzy metric spaces, which have important applications in quantum particle physics.

Fixed Point Theorems in Fuzzy Metric Spaces

A fuzzy metric completion of (X, M) is a complete fuzzy metric space (X^*, M^*) such that $(X, M$

) is isometric to a dense subspace of X^* . X is called completable if it admits a fuzzy metric completion. Definition 4. A fuzzy metric M on X is said to be stationary, [7], if M does not depend on t , i.e. if for each $x, y \in X$, the function $M(x, y, t) = M(x, y, 1)$ is constant ...

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The present research paper focuses on the existence of fixed point in α -fuzzy metric space. The presentation of α -fuzzy metric space in n -tuple encourages us to define different mapping in the symmetric α -fuzzy metric space. Here, the properties of fuzzy metric space are extended to α -fuzzy metric space. The introduction of notion for pair of ...

Some Modified Fixed Point Results in α -Fuzzy Metric Spaces

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Abstract. In this paper we define complete fuzzy metric space and proved that a fuzzy topologically complete subset of a fuzzy metric space is a (G_δ) set and prove that a converse of Sierpinsky theorem by showing that any (G_δ) set in a complete metric space is a topologically complete fuzzy metrizable space (Alexandroff Theorem).

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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 \mathfrak{R}^n . An additional aim is to sketch selected applications in which these metric space

Metric Spaces of Fuzzy Sets: Theory and Applications

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