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On fuzzy metric spaces 225 A sequence

$\{x_n\}$  in  $X$  is called a Cauchy sequence if

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$\lim_{n \rightarrow \infty} d(x_n, x_n) = 0$ .  $n \sim$  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  $(X, d, L, \text{Max})$  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 ,

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1965] introduced the concepts of fuzzy sets  
in 1965 , 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

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soft function and the composition of  
functions in a neutrosophic soft

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FM-bounded) fuzzy metric spaces from a  
metric spaces Finally, we present similar  
results for product fuzzy metric spaces

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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.

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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.

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A fuzzy metric space  $(X, M, \tau)$  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  $s$



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$\lim_{n \rightarrow \infty} M(a_n, b_n, t) = 1$  for all  $t > 0$ . (c2)  $\lim_{n \rightarrow \infty} M(a_n, b_n, t) > 0$  for all  $t > 0$ . (c3)

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A L-fuzzy metric space is said to be complete if and only if every Cauchy

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sequence is convergent. Henceforth, we assume that  $T$  is a continuous t-norm on lattice  $L$  such that for every  $\mu \in L \setminus \{0, 1\}$ , there is a  $\lambda \in L \setminus \{0, 1\}$  such that  $T^{n-1}(N(\lambda), \dots, N(\lambda)) > L N(\mu)$ . For more information see . Theorem 2.12. Every  $L$ -fuzzy metric space is normal. Proof

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

Hence if  $(X, M)$  is a fuzzy metric space, then the topological space  $(X, M)$  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 followed by the main result in this chapter which is Banach contractive mapping theorem in M-fuzzy metric...

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A fuzzy metric space is an ordered triple  $(X, M, \ast)$  where  $X$  is a nonempty set,  $\ast$  is a continuous t-norm, and  $M$  is a fuzzy set on  $X \times X \times (0, +\infty)$  satisfying the following conditions, for all  $x, y, z \in X, s,$

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[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

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forjournals  
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



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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

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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

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Let  $(X, M, \tau)$  be a KM-fuzzy quasi-pseudo-metric space. Then, for each  $x, y \in X$  the function  $M(x, y, \cdot)$  is nondecreasing. Proof.

Let  $x, y \in X$  and  $0 < t < s$ . Then  $M(x, y, s)$

$$M(x, x, s - t) \cdot M(x, y, t) = M(x, y, t).$$

Given a KM-fuzzy quasi-pseudo-metric space  $(X, M, \tau)$  we define the open

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## Fuzzyquasi-metric spaces

George and Veeramani gave in [3] an interesting notion of fuzzy metric space  $(X, M, \tau)$  (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

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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  $\alpha$ -fuzzy metric space if  $X$  is an arbitrary (nonempty) set,  $d$  is a continuous  $\alpha$ -norm on  $X$  and  $\mu$  is an  $\alpha$ -fuzzy set

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on satisfying the following conditions for every  $x$  in  $X$  and  $y$  in  $X$  :

It is an indisputable argument that the formulation of metrics (by Fr échet in the early 1900s) opened a new subject in

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mathematics called non-linear analysis after the appearance of Banach ' s fixed point theorem. Because the underlying space of this theorem is a metric space, the theory that developed following its publication is known as metric fixed point theory. It is well known that metric fixed point theory provides essential tools for

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solving problems arising in various branches of mathematics and other sciences such as split feasibility problems, variational inequality problems, non-linear optimization problems, equilibrium problems, selection and matching problems, and problems of proving the existence of solutions of integral and



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differential equations are closely related to fixed point theory. For this reason, many people over the past seventy years have tried to generalize the definition of metric space and corresponding fixed point theory. This trend still continues. A few questions lying at the heart of the theory remain open and there are many

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unanswered questions regarding the limits to which the theory may be extended.

Metric Structures and Fixed Point Theory provides an extensive understanding and the latest updates on the subject. The book not only shows diversified aspects of popular generalizations of metric spaces such as symmetric, b-metric, w-distance, G-

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metric, modular metric, probabilistic metric, fuzzy metric, graphical metric and corresponding fixed point theory but also motivates work on existing open problems on the subject. Each of the nine chapters—contributed by various authors—contains an Introduction section which summarizes the material needed to

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For example, read the chapter independently of the others and contains the necessary background, several examples, and comprehensive literature to comprehend the concepts presented therein. This is helpful for those who want to pursue their research career in metric fixed point theory and its related areas. Features

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Explores the latest research and developments in fixed point theory on the most popular generalizations of metric spaces Description of various generalizations of metric spaces Very new topics on fixed point theory in graphical and modular metric spaces Enriched with examples and open problems This book

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serves as a reference for scientific investigators who need to analyze a simple and direct presentation of the fundamentals of the theory of metric fixed points. It may also be used as a text book for postgraduate and research students who are trying to derive future research scope in this area.

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The use of fuzzy logic has become prominent in a variety of fields and applications. By implementing these logic sets, problems and uncertainties are more effectively resolved. Emerging Research on Applied Fuzzy Sets and Intuitionistic Fuzzy Matrices is a pivotal reference

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innovative overview of fuzzy logic sets and matrices.

This book focusing on Metric fixed point theory is designed to provide an extensive understanding of the topic with the latest updates. It provides a good source of references, open questions and new

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approaches. While the book is principally addressed to graduate students, it is also intended to be useful to mathematicians, both pure and applied.

In the past decade a critical mass of work that uses fuzzy logic for autonomous vehicle navigation has been reported.

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Unfortunately, reports of this work are scattered among conference, workshop, and journal publications that belong to different research communities (fuzzy logic, robotics, artificial intelligence, intelligent control) and it is therefore not easily accessible either to the new comer or to the specialist. As a result, researchers in

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this area may end up reinventing things while being unaware of important existing work. We believe that research and applications based on fuzzy logic in the field of autonomous vehicle navigation have now reached a sufficient level of maturity, and that it should be suitably reported to the largest possible group of

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interested practitioners, researchers, and students. On these grounds, we have endeavored to collect some of the most representative pieces of work in one volume to be used as a reference. Our aim was to provide a volume which is more than "yet another random collection of papers," and gives the reader some added

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value with respect to the individual papers. In order to achieve this goal we have aimed at:

- Selecting contributions which are representative of a wide range of problems and solutions and which have been validated on real robots; and
- Setting the individual contributions in a clear framework, that identifies the main

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problems of autonomous robotics for which solutions based on fuzzy logic have been proposed.

Fuzzy Logic has gained increasing acceptance as a way to deal with complexity and uncertainty in many areas of science and engineering. This book is

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the first to address its practical applications to chemical systems. Ten distinguished authors discuss the role of fuzzy logic in the characterization of a variety of chemical concepts, including chirality, quantum systems, molecular engineering and design, and hierarchical classification methods. Fuzzy Logic in Chemistry will



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appeal to both students and professionals who are seeking to learn more about theory and applications in an area of growing importance to the physical sciences. The first book on the applications of fuzzy logic in chemistry Covers a topic relevant to many disciplines, including molecular design Discusses applications of

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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



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although all making use of mathematical formalism to some extent, are essentially motivated by and oriented towards more immediate applications and related practical issues. The reader is assumed to have some previous undergraduate level acquaintance with metric spaces and elementary functional analysis.

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