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Common Fixed Point Theorems for a Pair of Self-Mappings in Fuzzy Cone Metric Spaces

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Topology \u0026 Analysis: metric spaces, 1-18-19, part 1Topology \u0026 Analysis: contraction mapping technique, 1-27-19 part 2 **Book Collecting 101: Remainder Marks** ~~Why books are here to stay | Small Thing Big Idea, a TED series~~ ~~Intuitionistic Fuzzy Sets~~ Banach Fixed Point Theorem **Type2 fuzzy set , Instutionistic fuzzy set \u0026 Extension principle - Lecture 06 By Prof S Chakraverty Define Intuitionistic Fuzzy set. Give 2 examples of Intuitionistic Fuzzy set. Describe differences Fixed points in digital topology Point-Set Topology 7: Continuous Mappings \u0026 Intermediate Value Theorem** *example in intuitionistic fuzzy set* long lost BOOK HAUL // *17 BOOKS* Proving Brouwer's Fixed Point Theorem | Infinite Series **An Introduction to Fuzzy Logic** *AbeBooks: Long Live the Book 8 Books That Changed My Life | Vlogmas Day #15 - \"Grown Up Christmas List\" Real-Time Data | SiGMA Deep Tech* ~~Brouwer's fixed point theorem~~ ~~Functional Analysis Overview~~

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(PDF) On the Intuitionistic Fuzzy Metric Spaces

Also we define topologically complete intuitionistic fuzzy metrizable spaces and prove that any G δ set in a complete intuitionistic fuzzy metric spaces is a topologically complete intuitionistic fuzzy metrizable space and vice versa. Finally, we define intuitionistic fuzzy normed spaces and fuzzy boundedness for linear operators and so we prove that every finite dimensional intuitionistic fuzzy normed space is complete.

On the intuitionistic fuzzy topological spaces - ScienceDirect
On the intuitionistic fuzzy topological spaces 1. Preliminaries. The theory of fuzzy sets was introduced by Zadeh in 1965 [19]. After the pioneering work of Zadeh,... 2. Precompact intuitionistic fuzzy metric spaces. Definition 2.1 Let (X, M, N, ∗, ♢) be an intuitionistic fuzzy metric... 3. ...

On the intuitionistic fuzzy topological spaces - ScienceDirect
A new complete intuitionistic fuzzy metric space is proposed to investigate the existence and uniqueness of intuitionistic fuzzy solutions for these problems.

(PDF) Intuitionistic fuzzy metric space - ResearchGate
In this paper we give some properties of a class of intuitionistic fuzzy metrics which is called strong. This new class includes the class of stationary intuitionistic fuzzy metrics. So we examine the relationship between strong intuitionistic fuzzy metric and stationary intuitionistic fuzzy metric.

On strong intuitionistic fuzzy metrics
Some properties of complete intuitionistic fuzzy metric spaces Definition 4.1. Let (X, N, M ,*,♢) be an intuitionistic fuzzy metric space. A collection {F n } n∈ N is said to have... Remark 4.2. A nonempty subset F of an intuitionistic fuzzy metric space X has intuitionistic fuzzy diameter zero if ...

Intuitionistic fuzzy metric spaces - ScienceDirect
An intuitionistic fuzzy metric space is a 5-tuple (X, M, N, ∗, ♢) such that X is a (nonempty) set, ∗ is a continuous t-norm, ♢ is a continuous t-conorm and M, N are fuzzy sets on X × X × (0, ∞) satisfying the following conditions, for all x, y, z ∈ X, s, t > 0: (a) M(x, y, t) + N(x, y, t) ≤ 1; (b) M(x, y, t) > 0;

A note on intuitionistic fuzzy metric spaces - ScienceDirect
Then (X ~, M d ˜, N d ˜, ∗,) is a complete intuitionistic fuzzy 2-metric space and it is the unique

intuitionistic fuzzy 2-metric completion of (X, M d, N d, ∗,) (up to isometry). Indeed, since there is an isometry f from (X , d) onto a dense subspace of (X ~ , d ˜) and the topologies generated by d ˜ and (M d ˜ , N d ˜) coincide, f (X) is dense in (X ~ , M d ˜ , N d ˜ , ∗ ,) .

Intuitionistic fuzzy 2-metric space and its completion ...

An intuitionistic fuzzy metric space is a 5-tuple (X,M,N,,}) such that Xis a (nonempty) set, is a continuous t-norm, }is a continuous t-conorm, and M,Nare fuzzy sets on X X (0,1) satisfying the following conditions, for all x,y,z2X,s,t>0:

Remarks to “on strong intuitionistic fuzzy metrics

Abstract. New methods for measuring distances between intuitionistic fuzzy sets and/or interval-valued fuzzy sets, based on the Hausdorff metric, are suggested. The proposed new distances are straightforward generalizations of the well known Hamming distance, the Euclidean distance and their normalized counterparts. Previous article.

Distances between intuitionistic fuzzy sets and/or ...

Park [24] in 2004, using the idea of intuitionistic fuzzy sets de nes the notion of intuitionistic fuzzy metric space with the help of continuous t-norm and t-conorm as a generalization of fuzzy metric space due to George and Veermani ([11, 12]).

ON SOME COMMON FIXED POINTS THEOREMS IN INTUITIONISTIC ...

Finally, we define intuitionistic fuzzy normed spaces and fuzzy boundedness for linear operators and so we prove that every finite dimensional intuitionistic fuzzy normed space is complete. 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.

On the intuitionistic fuzzy topological spaces - NASA/ADS

Although topological structure of an intuitionistic fuzzy metric space (X, M, N, *, ♦) coincides with the topological structure of the fuzzy metric space (X, M, *) ([2]), study of common fixed ...

On the Intuitionistic fuzzy topological (metric and normed ...

An intuitionistic fuzzy set (IFS) in is defined by the form with the condition,where the function denotes the degree of membership of,and denotes the degree of nonmembership of. For any,is called the intuitionistic fuzzy index of the element to the IFS for representing the degree of uncertainty.

Definition 2. (Atanassov [6, 7]).

Belief and Plausibility Measures on Intuitionistic Fuzzy ...
In this case (M, N) is called an intuitionistic fuzzy 2-metric on X and we denote it by (M, N) 2. The functions M (x, y, z; t) and N (x, y, z; t) denote the degree of nearness and the degree of non-nearness between x, y and z with respect to t, respectively. Remark 2.1. In an intuitionistic fuzzy metric space (X, M, N, ∗,), M (x, y, z;.) is non-decreasing and N (x, y, z;.

Baire's and Cantor's theorems in intuitionistic fuzzy 2 ...
Then is called an intuitionistic fuzzy metric on . The function and denote the degree of nearness and the degree of nonnearness between and respect to , respectively. Remark 1. In intuitionistic fuzzy metric spaces , is nondecreasing and is nonincreasing for all . 3. Main Results

Semigroup Actions on Intuitionistic Fuzzy Metric Spaces
In Section 3, we define a Hausdor topology on this intuitionistic fuzzy metric space and show that every metric induces an intuitionistic fuzzy metric. Further we introduce the notion of Cauchy sequences in an intuitionistic fuzzy metric space and prove the Baire's theorem for intuitionistic fuzzy metric spaces.

Intuitionistic fuzzy metric spaces - PDF Free Download
Every fuzzy metric space (X,M, *) is an intuitionistic fuzzy metric space of the form (X,M, 1-M, * [??]) such that t-norm * and t-conorm [??] are assosiated [11], i.e. x[??]y = 1 - ((1 - x) * (1 - y)) for any x, y [member of] [0, 1].

On some results in intuitionistic fuzzy metric spaces ...
Every fuzzy metric space (X,M,∗) is an intuitionistic fuzzy metric space of the form (X,M, 1 − M,∗,ƒ) such that t -norm ∗ and t -conorm ƒ are associated (Lowen [20]), i.e., xƒy = 1 − ((1 −x) ∗ (1 −y)) for all x,y ∈ X .