

# On The Intuitionistic Fuzzy Metric Spaces And The

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## On The Intuitionistic Fuzzy Metric

### Intuitionistic Fuzzy Graph Metric Space

Intuitionistic Fuzzy Graph Metric Space SYahya Mohamed1 and AMohamed Ali2 1PG and Research Department of Mathematics, Govt Arts College,Trichy-22 yahya md @yahoom 2Department of Mathematics, GTN Arts College(Autonomous),Dindigul-05

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### Intuitionistic Fuzzy Cone Metric Spaces and Fixed Point ...

Intuitionistic Fuzzy Cone Metric Spaces and Fixed Point Theorems Research Article AMohamed Ali1 and GRanjith Kanna1 1 Department of Mathematics, GTN Arts College, Dindigul, Tamilnadu, India Abstract: In this paper, the notion of intuitionistic fuzzy cone metric space is introduced Some common xed point theorems for

### Common Fixed Point Theorem in Intuitionistic Fuzzy Metric ...

intuitionistic fuzzy sets as a generalization of fuzzy sets In 2004, Park [2] defined the notion of intuitionistic fuzzy metric space with the help of continuous t-norms and continuous t-conorms Recently, in 2006, Alaca et al [3] defined the notion of intuitionistic fuzzy metric space by making use of Intuitionistic fuzzy sets, with the help

### Weakly Compatible Mapping in Intuitionistic Fuzzy Metric Space

Weakly Compatible Mapping In Intuitionistic Fuzzy Metric Space DOI: 109790/5728-1203030109 wwwiosrjournalsorg 3 | Page Remark 19 Two maps A and B on an intuitionistic fuzzy metric space  $(X, M, N, *, i)$  are non-compatible if and only if there exists at least one sequence  $\{x$

### Common Fixed Point Theorems in Intuitionistic Fuzzy Metric ...

pings in intuitionistic fuzzy metric spaces and proved the intuitionistic fuzzy version of Pant's theorem [8] Grego-ri et al [9], Saadati and Park [10] studied the concept of intuitionistic fuzzy metric space and its applications No wonder that intuitionistic fuzzy fixed point theory has become an area of interest for specialists in fixed

### **A novel intuitionistic fuzzy similarity measure based on ...**

are intuitionistic fuzzy metric spaces, intuitionistic fuzzy operators, and summability theory QM Danish Lohani received PhD degree from Department of Mathematics, Aligarh Muslim University, India, in 2009 He has been working as an assistant professor in the Department of Mathematics, South Asian University, India since 2012

### **Fixed point theorem in intuitionistic fuzzy metric space**

Key words: Fixed point, fuzzy metric space and Intuitionistic fuzzy metric space 1 Introduction Fuzzy set theory was first introduced by Zadeh [1] in 1965 to describe the situation in which data are imprecise or vague or uncertain Thereafter the concept of fuzzy set was generalized as intuitionistic fuzzy set by K Atanassov [2] in 1984

### **Intuitionistic Fuzzy Sequences in Metric Spaces**

intuitionistic fuzzy sequence in a metric space is introduced and also initiate the new convergent property of an intuitionistic fuzzy sequence which is an generalization of already existing crisp concept 2 Preliminaries De nition 21 ([4])

### **Ranking of Intuitionistic Fuzzy Numbers by New Distance ...**

ranking of intuitionistic fuzzy numbers plays a vital role in intuitionistic fuzzy decision-making In last few years, different methods for ranking IFNs have been introduced[[7]-[9],[10],[12],[23]] Szmidt and Kacprzyk introduced the hamming distance between intuitionistic fuzzy sets and proposed a similarity measure based on the distance[13]

### **Remarks to "on strong intuitionistic fuzzy metrics**

fuzzy metric based on the concept of strong fuzzy metric In [8] the authors advised that many possible constructions in the realm of intuitionistic fuzzy metric spaces can be directly obtained from the fuzzy case In this way, we think that the notion of strong intuitionistic ...

### **Intuitionistic fuzzy -contractive mappings**

Keywords: Intuitionistic fuzzy metric space, non-Archimedean intuitionistic fuzzy metric space, intuitionistic fuzzy  $\psi$ - $\phi$  contractive mapping 2010 Mathematics Subject Classification: 46G05 1 Introduction Theory of intuitionistic fuzzy set as a generalization of fuzzy set [8] was introduced by ...

### **Intuitionistic Fuzzy Euclidean Normed Spaces**

then  $(M, N)$  is an intuitionistic fuzzy metric with respect to  $*$  and on  $V$ , which is induced by the intuitionistic fuzzy norm  $(\mu, \nu)$  with respect to  $*$  and Lemma 15

### **COUPLED FIXED POINT THEOREMS IN ORDERED NON ...**

theorem in non-Archimedean intuitionistic fuzzy metric space In this paper, we define non-Archimedean intuitionistic fuzzy metric space, and prove a coupled fixed point theorems for map satisfying the mixed monotone property in partially ordered complete non-Archimedean intuitionistic fuzzy metric space 2

### **FIXED POINTS IN INTUITIONISTIC FUZZY METRIC SPACES FOR ...**

Fixed Points in Intuitionistic Fuzzy Metric Spaces for Weakly Compatible Maps Jitendera Airan , Geeta Modi Abstract-In this paper, we prove some fixed point theorems for weakly compatible maps in Intuitionistic Fuzzy metric space but without assuming the completeness of the space or

continuity of mapping involved

### **A Common Fixed Point Theorem for Compatible Mappings of ...**

A Common Fixed Point Theorem for Compatible Mappings of Type (K) in Intuitionistic Fuzzy Metric space 476 space with the condition: (FM6)  $\lim_{n \rightarrow \infty} M(x, y, t)$

### **Research Paper COMMON FIXED POINT THEOREMS IN ...**

the notion of intuitionistic fuzzy metric space with the help of continuous t-norm and continuous t-conorm as a generalization of fuzzy metric space due to Kramosil and Michalek [4] Turkoglu et al [9] gave generalization of Jungck's [3] common fixed point theorem in intuitionistic fuzzy metric spaces Al ...

### **Fixed Point Theorems for Weakly Compatible Mappings in ...**

intuitionistic gradation of openness In 2004, Park [23] introduced and discussed a notion of intuitionistic fuzzy metric spaces (briefly, IFM-spaces) which is based both on the idea of intuitionistic fuzzy sets and the concept of a fuzzy metric space given by George and Veeramani [11]

### **Semi-Compatible Maps On Intuitionistic Fuzzy Metric Space**

Semi-Compatible Maps On Intuitionistic Fuzzy Metric Space Pradeep Kumar Dwivedi<sup>1</sup> & Anil Rajput<sup>2</sup> <sup>1</sup>Millennium Group of Institutions, Bhopal, India, <sup>2</sup>CSA, Govt PG College, Sehore, India, Abstract: In this paper, we prove common fixed point theorem for semi-compatible mappings on intuitionistic