

Some New Type of Contraction and Common Fixed Point Theorem in Fuzzy Metric Space 2022

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Abstract: The main objective of writing this research paper is to prove the Common Fixed Point Theorem in Fuzzy Metric Space with a new type of contraction.

Keywords: Compatibility mappings, Common fixed point, Fuzzy metric space, Self-mapping etc

REFERENCES

- [1]. G.Jungek , Int. J.MAthematical& Math. Sci. 9 (1986), 771-79.
- [2]. G. JUNGCK, B.E. Rhoades Internat. J. Math. & Math. Scl. VOL.16 NO. 3 (1993) 417-428, 417
- [3]. G. Jungck, Commuting mappings and fixed points, Amer. Math.Monthly 83 (1976),261-263.MR 53 #4031
- [4]. K. M. Das & K. V. NAIK Pro.Am. Mathematical Society, Vol. 77, No. 3, Dec. 1979
- [5]. S. Banach, Sur les opérationsdans les ensembles abstractsetleur application aux équations intégrales(Thèseprésentée en juin 1920 al'Université de Léopol [= Lwów] pourobtenir le grade dedocteur en philosophie), Fund.Math. 3 (1922), 133-181.
- [6]. D.Zike , Fuzzy psedoMetric spaces. J.Maths.Anals.Appl.86 (1982),74-95.
- [7]. M.A. Erceg, Metric spaces in fuzzy set theory..Maths.Anals. Appl., 69(1979), 205-230.
- [8]. A.George&P.Veeramani,On some results of analysis for fuzzy Metric spaces, Fuzzy sets and Systems, 90(1997),365-368.
- [9]. Dr U.D. Tapi , V.K. Songara S.G.S.I.T.S. Indore : Study of Fixed Point Theory by Fuzzy Metric Space, Dissertation Thesis Fulfill Degree of Master of Science in Applied Mathematics and Computational Science 2009 .
- [10]. Pooja mishra, Brajbhushan Singh Chouhan : Pair of twelve compatibility mappings and common fixed point theorem in metric space ,National Seminar RIT Indore, April 2018
- [11]. Pooja mishra, Brajbhushan Singh Chouhan : Common fixed point in Fuzzy Metric Space , National Multi Conference LNCT Indore , November 2021.
- [12]. Pooja mishra : Some Special Type Of Theorem In Fuzzy Metric Space And There Common Fixed Point ,National Conference On Modeling And Computational Simulation Dr. A.P.J. Abdul Kalam University Indore,2022.