Abstract

The purpose of this paper is to present a common fixed point theorem for weakly compatible four self maps using implicit relation on a complete fuzzy metric space. Our results also extended the result of R. Rana, R. C. Dimri et. al. [13]

References

Fixed Point Theorem in $\varepsilon$-chainable Fuzzy Metric Spaces Using Implicit Relations

- Imdad M., Kumar S. & Khan M. S., Remarks some fixed point theorem Radovi mathematics II (2002), 135 – 143.
- Manro S. et al ,Common fixed point theorems in fuzzy metric spaces3,(2012),151-158
- Popa V., Some fixed point theorems for weakly compatible mapping, Radovi Mathematics 10 (2001), 245 - 252
- Rana R. et al, Fixed point theorem in fuzzy metric spaces using implicit relations, Int. J. computer Application, (2010), (0975 - 8887)
- Singh B. and Chauhan M. S., Common fixed points compatible maps in fuzzy metric space, fuzzy sets and system, 15 (2000), 471 – 475.
- Zadeh L. A., fuzzy sets, Inform and control 89 (1965), 338-353

Index Terms

Computer Science Applied Mathematics

Keywords

Fuzzy metric space $\varepsilon$-chainable fuzzy metric space compatible mapping weakly compatible mapping

implicit relation and common fixed point