

5TH IFSCOM2018 ABSTRACT BOOK
ISBN: 978-605-68670-1-9

IFSCOM2018
5TH IFS AND CONTEMPORARY MATHEMATICS CONFERENCE
SEPTEMBER, 05-09, 2018, KAHRAMANMARAS, TURKEY
pp: 8-8

A FIXED POINT THEOREM FOR θ -CONTRACTIVITY IN G_p -METRIC SPACES

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ABSTRACT

Recently, Jleli and Samet [1] introduced a new type of contractive mappings. Jleli and Samet called it as θ -contraction and proved a fixed point theorem for mappings of this type for which the Banach contraction principle and some other known contractive conditions in the literature can be obtained as special cases. Zand and Nezhad [2], introduced a new generalized metric spaces G_p which as a both generalization of the partial metric space and G metric spaces. Some of these works may be noted in [3, 4, 5]. We present an extension of the notion of θ -contraction of Jleli and Samet [1] in generalization of partial metric space.

REFERENCES

- [1] M. Jleli, B. Samet, A new generalization of the Banach contraction principle, *J. Inequal. Appl.*, 2014:38, (2014).
- [2] M.R.A. Zand, and A.D. Nezhad, A generalization of partial metric spaces, *Journal of Contemporary Applied Mathematics*, 24 86-93, (2011).
- [3] H. Aydi, E. Karapınar, and P. Salimi, Some Fixed Point Results in G_p Metric Spaces. *Journal of Applied Mathematics.*, 2012, Article ID 891713, page 15, (2012).
- [4] V. Popa, and A. M. Patriciu, Two general fixed point theorems for a sequence of mappings satisfying implicit relations in G_p metric spaces. *Appl. Gen. Topol.*, 16, no. (2), 225-231, (2015).
- [5] K. S. Eke, Some fixed and coincidence point results for expansive mappings on G -partial metric spaces, *Adv. Fixed Point Theory*, 5, no. 4, 369-386, (2015).

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2000 *Mathematics Subject Classification.* Primary:47H10, 54H25.
Key words and phrases. Fixed point, G_p -metric space, θ -contraction.