

COMMON FIXED POINT THEOREMS IN PARTIAL IDEMPOTENT-VALUED METRIC SPACES

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Abstract. In this article, we consider complete partial idempotent-valued metric spaces and prove some common fixed point theorems in the setting of cone metric spaces over idempotent space.

Key Words and Phrases: Partial metric space, common fixed points.

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REFERENCES

- [1] M. Abbas, G. Jungck, *Common fixed points results for noncommuting mapping without continuity in cone metric space*, J. Math. Anal. Appl., **341**(2008), 416-420.
- [2] I. Altun, A. Erduran, *Fixed point theorems for monotone mappings on partial metric spaces*, Fixed Point Theory Appl., 2011, art. ID 508730 (2011).
- [3] I. Altun, F. Sola, H. Simsek, *Generalized contractions on partial metric spaces*, Topol. Appl., **157**(18)(2010), 2778-2785.
- [4] J. Caballero, J. Harjani, K. Sadarangani, *Contractive-like mapping principles in ordered metric spaces and applications to ordinary differential equations*, Fixed Point Theory Appl., 2010, art. ID 916064 (2010).
- [5] A.A. Eldred, P. Veeramani, *Existence and convergence of best proximity points*, J. Math. Anal. Appl., **323**(2006), 1001-1006.
- [6] L.G. Huang, X. Zhang, *Cone metric spaces and fixed point theorems of contractive mappings*, J. Math. Anal. Appl., **332**(2007), no. 2, 1468-1476.
- [7] D. Paesano, P. Vetro, *Common fixed points in a partially ordered partial metric space*, Int. J. Anal., 2013, art. ID 428561.
- [8] S. Radenović, *Common fixed points under contractive conditions in cone metric spaces*, Comput. Math. Appl., **58**(2009), 123-1278.
- [9] S. Radenović, V. Rakočević, Sh. Rezapour, *Common fixed points for (g, f) type maps in cone metric spaces*, Appl. Math. Comput., **218**(2011), 480-491.

- [10] J.C. Yeol, S. Reza, S.H. Wang, *Common fixed point theorems on generalized distance in ordered cone metric spaces*, Comput. Math. Appl., **61**(2011), 1254-1260.

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