

**Rezapour, Sh.; Hambarani, R.**

**Some notes on the paper “Cone metric spaces and fixed point theorems of contractive mappings”.** (English) [Zbl 1145.54045](#)

*J. Math. Anal. Appl.* 345, No. 2, 719-724 (2008).

Summary: *L. G. Huang* and *X. Zhang* [*J. Math. Anal. Appl.* 332, No. 2, 1468–1476 (2007; [Zbl 1118.54022](#))] reviewed cone metric spaces. We prove that there are no normal cones with normal constant  $M < 1$  and for each  $k > 1$  there are cones with normal constant  $M > k$ . Also, by providing non-normal cones and omitting the assumption of normality in some results of [loc. cit.], we obtain generalizations of the results.

**MSC:**

[54H25](#) Fixed-point and coincidence theorems (topological aspects)

Cited in **13** Reviews  
Cited in **191** Documents

**Keywords:**

cone metric space; normal cones; non-normal cones; fixed point

**Full Text:** [DOI](#)

**References:**

- [1] Long-Guang, Huang; Xian, Zhang, Cone metric spaces and fixed point theorems of contractive mappings, *J. math. anal. appl.*, 332, 1468-1476, (2007) · [Zbl 1118.54022](#)
- [2] Mohebi, H., Topical functions and their properties in a class of ordered Banach spaces, (), 343-361 · [Zbl 1124.90048](#)
- [3] Mohebi, H.; Sadeghi, H.; Rubinov, A.M., Best approximation in a class of normed spaces with star-shaped cone, *Numer. funct. anal. optim.*, 27, 3-4, 411-436, (2006) · [Zbl 1098.41036](#)

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