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Best approximation and fixed points for rational-type contraction mappings. (English)


Summary: In this paper, we prove a fixed point theorem for a rational type contraction mapping in the frame work of metric spaces. Also, we extend Brosowski-Meinardus type results on invariant approximation for such class of contraction mappings. The results proved extend some of the known results existing in the literature.

MSC:
41A50  Best approximation, Chebyshev systems
47H10  Fixed-point theorems
54H25  Fixed-point and coincidence theorems (topological aspects)

Keywords:
compact set; convex set; starshaped set; best approximation

Full Text: DOI

References:


G. S. Rao and S. A. Marialloss, Applications of fixed point theorems to best approximations, Serdica 9 (1983), no. 3, 244-248.; Rao, G. S.; Marialloss, S. A., Applications of fixed point theorems to best approximations, Serdica, 9, 3, 244-248 (1983) · Zbl 0553.41034


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