Narang, T. D.; Chandok, S.
On continuity of the best approximation map and fixed point theorems. (English)

Summary: The paper contains some results on the continuity of the best approximation map in normed linear spaces, on fixed point of a continuous nowhere normal outward map in metric linear spaces, and on fixed point of a nonexpansive map in the case of metric spaces. The proved results generalize and extend the earlier known results on the subject.

MSC:
41A50  Best approximation, Chebyshev systems
41A65  Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
47H10  Fixed-point theorems
54H25  Fixed-point and coincidence theorems (topological aspects)

Keywords:
core point; convex metric space; best approximation; proximinal; convex and approximatively compact set