DEMICYLOSED PRINCIPLE AND CONVERGENCE
OF A HYBRID ALGORITHM FOR MULTIVALUED $\ast$-NONEXPANSIVE MAPPINGS

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Abstract. A demiclosed principle is proved for multivalued $\ast$-nonexpansive mappings. Moreover, strong convergence of an iterative algorithm is obtained for such mappings in a Banach space by using metric projections. The results of this paper improve and extend the corresponding results for single valued nonexpansive mappings which was studied by many authors.

Key Words and Phrases: Multivalued $\ast$-nonexpansive mapping, approximating fixed point, metric projection, uniformly convex Banach space.

2010 Mathematics Subject Classification: 47H09, 47H10.

REFERENCES


*Received: May 20, 2011; Accepted: March 29, 2012.*