MIXED INVEX EQUILIBRIUM PROBLEMS WITH GENERALIZED RELAXED MONOTONE AND RELAXED INVARIANT PSEUDOMONOTONE MAPPINGS

BIJAYA KUMAR SAHU, SABYASACHI PANI AND R. N. MOHAPATRA

Abstract. In this paper, we introduce generalized relaxed monotone mappings and relaxed invariant pseudomonotone mappings for bi-functions. By using KKM technique, we establish certain existence results for mixed invex equilibrium problems with the generalized relaxed monotone mappings and some of the results for invex equilibrium problems with the relaxed invariant pseudomonotone mappings in Banach spaces.

Mathematics subject classification (2010): 90C33, 47J20, 47J30, 47H05.

Keywords and phrases: Equilibrium problem, generalized relaxed \( \eta - \alpha \) monotonicity, relaxed \( \rho - \theta \) invariant pseudomonotonicity, KKM mappings.

REFERENCES


