

Iterative algorithm for systems of mixed vector equilibrium problems involving set-valued variational-like inequalities

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04.04.2019

Abstract

We introduce and study a system of generalized mixed vector equilibrium problems involving a set-valued variational-like inequality (SGMVEP) in the setting of Banach spaces. To this end, we adopt an approach based on the vector auxiliary principle technique. That is, we introduce an associated vector auxiliary problem, then the study of the constructed auxiliary problem will lead to generate an iterative algorithm that converges strongly to a solution of (SGMVEP) under weaker conditions.