عنوان مقاله:

H(.,.)-\varphi-\eta-accretive operator with an application to a system of generalized variational inclusion problems in q-uniformly smooth Banach spaces

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خلاصه مقاله:

In this paper, we study a new system of generalized variational-like inclusion problems involving generalized H(\cdot,\cdot)-\varphi-\eta-accretive operators in real q-uniformly smooth Banach spaces. We define the resolvent operator associated with H(\cdot,\cdot)-\varphi-\eta-accretive operator and prove it is single-valued and Lipschitz continuous. Moreover, we suggest a perturbed Mann-type iterative algorithm with errors for approximating the solution of a system of generalized variational-like inclusion problems. Furthermore, we discuss the convergence and stability analysis of the iterative sequence generated by the algorithm.

کلمات کلیدی:

H(cdot, cdot)-varphi-eta-accretive operator, q-uniformly smooth Banach spaces, Resolvent operator technique, Perturbed Mann-type iterative algorithm, Convergence analysis, Stability analysis

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