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# Iterative Algorithm for A New System of Nonlinear Set-Valued Variational Inclusions Involving $(H, \eta)$ -monotone Mappings

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**Abstract:**

In this paper, a new system of nonlinear set-valued variational inclusions involving $(H, \eta)$-monotone mappings in Hilbert spaces is introduced and studied. By using the resolvent operator method associated with $(H, \eta)$-monotone mappings, an existence theorem of solutions for this kind of system of nonlinear set-valued variational inclusion is established and a new iterative algorithm is suggested and discussed. The results presented in this paper improve and generalize some recent results in this field.

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