

Approximation of solutions of variational inequalities in Hilbert spaces

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Abstract. In this research, we study iterative methods for solving variational inequalities in Hilbert spaces. We prove that the generated sequence is strongly convergent to a solution of the variational inequality problem assuming that the given operator is quasi-monotone and Lipschitz continuous with and without any knowledge of the Lipschitz constant of the operator. We also give some examples of applications and numerical experiments of our main results.

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