Ceng, L. C.; Petruşel, A.; Qin, X.; Yao, J. C.

Two inertial subgradient extragradient algorithms for variational inequalities with fixed-point constraints. (English) Zbl 07367159 Optimization 70, No. 5-6, 1337-1358 (2021)

Summary: This article proposes two general inertial algorithms with line-search process for finding a solution of a variational inequality problem with fixed-point constraints via a subgradient-extragradient approach. Common solution theorems are obtained in Hilbert spaces.

MSC:
47H05 Monotone operators and generalizations
47H10 Fixed-point theorems
49J30 Existence of optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)

Keywords:
subgradient extragradient approach; variational inequality problem; asymptotically nonexpansive operator; fixed point

Full Text: DOI

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