

1106-49-345

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The variational inequality problem for an inverse strongly monotone over the fixed point set of a nonexpansive mapping includes signal processing problems and network resource allocation problems. We devised an iterative algorithm for solving triple hierarchical problem. The strong convergence for the proposed algorithm to the solution is guaranteed under some assumptions. Our results extend ones of Iiduka(2009), Iiduka (2012) and study ones of Ceng et.al(2011) , Yao et.al(2011) some authors. Moreover, we apply the proposed algorithm to a network bandwidth allocation problem and show its effectiveness. (Received August 24, 2014)