

STRONG CONVERGENCE FOR EQUILIBRIUM PROBLEMS WITH INFINITELY NONEXPENSIVE MAPPINGS

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Abstract

We introduce a new iterative scheme for finding a common element of infinitely non-expansive mappings, the set of solutions of an equilibrium problems, and the set of solutions of the variational inequality for an α -inverse-strongly monotone mapping in a Hilbert Space. Then, the strong converge theorem is proved under some parameter controlling conditions. The results of this paper extend and improve the results of Yi-An Chen and Yi-Ping Zhang (2010) and many others.

Key Words and Phrases : *Equilibrium problem, Variational inequality, α -inverse-strongly monotone mapping, Iterative algorithm.*