STRONG CONVERGENCE THEOREMS OF FIXED POINT FOR QUASI-PSEUDO-CONTRACTIONS BY HYBRID PROJECTION ALGORITHMS

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Dedicated to Wataru Takahashi on the occasion of his retirement

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Abstract. The purpose of this paper is to propose a modified hybrid projection algorithm and prove strong convergence theorems of fixed points for a Lipschitz quasi-pseudo-contraction in the framework of Hilbert spaces. Our results improve and extend the corresponding ones announced by many others.

Key Words and Phrases: Strong convergence, hybrid projection algorithm, pseudo-contraction, Hilbert space.

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