

Dedicated to Prof. Qamrul Hasan Ansari on the occasion of his 60th anniversary

On solving split best proximity point and equilibrium problems in Hilbert spaces

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ABSTRACT.

In this paper, we introduce a split best proximity point and equilibrium problem, and find a solution of the best proximity point problem such that its image under a given bounded linear operator is a solution of the equilibrium problem. We construct an iterative algorithm to solve such problem in real Hilbert spaces and obtain a weak convergence theorem. Finally, we also give an example to illustrate our result.

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