

AN INERTIAL CENSOR-SEGAL ALGORITHM FOR SPLIT COMMON FIXED-POINT PROBLEMS

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Abstract. In this paper we study the split common fixed-point problem in Hilbert spaces. To speed up its convergence, we modify the algorithm recently introduced by Censor and Segal. Moreover, the step-size in our algorithm is independent of the norm of the given linear mapping. Under some mild conditions, we establish two weak convergence theorems of the proposed algorithm.

Key Words and Phrases: Split common fixed-point problem, firmly quasi-nonexpansive mappings, inertial Censor-Segal algorithm.

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