

AN EXTRAGRADIENT ALGORITHM FOR THE SPLIT EQUILIBRIUM PROBLEMS WITHOUT PRIOR KNOWLEDGE OF OPERATOR NORM

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Abstract. In this paper, using the hybrid projection method and an extragradient method of Hieu in [9], we present an extragradient algorithm for approximating a solution of the split equilibrium problem. The strong convergence theorem is proved in the framework of Hilbert spaces under some mild conditions. In particular, our algorithm does not depend on the norm of the transfer operator.
Key Words and Phrases: Hilbert space, split equilibrium problem, pseudomonotonicity, extragradient method.

2010 Mathematics Subject Classification: 68W10, 65K10, 65K15, 47H09, 47H10.

Acknowledgement. The first author is supported by Sari Branch, Islamic Azad University. The second author is supported by Thai Nguyen University of Sciences. All the authors are very grateful to an anonymous referee for providing them with useful comments and helpful suggestions.

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Received: June 26, 2019; Accepted: April 14, 2020.

