Abstract

The aim of paper is to prove a weak convergence result for finding a common of the set of fixed points of a nonexpansive mapping and the set of solutions of a variational inequality problem for a monotone, Lipschitz continuous mapping. Using an example in C++, validity of the result will be proved. Also, we shall find a common element of the set of fixed points of a nonexpansive mapping and the set of zeros of a monotone, Lipschitz continuous mapping.

References


**Index Terms**

Computer Science

Applied Mathematics

**Keywords**

Fixed Points  Hilbert Spaces  Monotone Mappings  Nonexpansive Mappings

Variational Inequalities. 2000 Mathematics Subject Classification: Primary 47H05

47J05

47J25