

IMPLICIT ITERATION PROCESS FOR A FINITE FAMILY OF NONEXPANSIVE NONSELF-MAPPINGS IN BANACH SPACES

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Abstract

The purpose of this paper is to study the weak and strong convergence of an implicit iteration process to a common fixed point for a finite family of nonexpansive nonself-mappings in Banach spaces. The results presented in this paper extend and improve the corresponding results of [Xu and Ori, Numer. Funct. Anal. optim. 22(2001) 767-773; Zhou and Chang, Numer. Fund. Anal. Optim. 23(2002) 911-921; Chidume and Shahzad, Nonlinear. Anal. 62(2005), 1149-1156].

Key Words : *Weak and strong convergence ; Fixed points ; nonexpansive nonself-mappings ; Opial condition ; Condition (B) ; Semi-compact.*

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