

International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 6 No. V (September, 2012), pp. 353-358

FIXED POINT APPROXIMATION BY ISHIKAWA ITERATION FOR GENERALIZED NON-EXPANSIVE MAPPING

SHRUTI CHAUKIYAL, SANDEEP BHATT AND R. C. DIMRI

Department of Mathematics,
H. N. B. Garhwal University Srinagar (Garhwal),
Uttarakhand-246174, India

Abstract

In this paper, we prove an Ishikawa iteration scheme for convergence to common fixed point of two non-expansive and generalized non-expansive mappings. Our results unify, generalize and complement the comparable results from the current literature.

Key Words : *Nonexpansive mapping, Convergence theorem, Uniformly convex Banach spaces, Ishikawa iteration.*

AMS Subject Classification : 47H10, 54H25.

© <http://www.ascent-journals.com>