

1124-47-313

Xavier Alexius Udo-utun* (xvior@yahoo.com), Department of Mathematics and Statistics,
University of Uyo, No. 1 Ikpa Road, Uyo, 520001, Nigeria. *On Unification of fixed point techniques
- Applications of (δ, k) -weak contractions.*

Author (Udo-utun Fixed Point Theory and Applications 2014, 2014:65) derived a novel property in his study of F -contractions (Wardowski Fixed Point Theory and Applications 2012:94,2012). Applications yield asymptotic fixed point theorems for contractive, nonexpansive and all Lipschitzian operators sharing the property. Attempt is made to extend applicability to include certain discontinuous operators in Banach and metric spaces as a unifying significance of the property and the notion of (δ, k) -weak contractions introduced earlier by Berinde (Carpath. J. Math. 19(1), 7-22 2003; Nonlinear Forum 9(1), 43-53, 2004). Interesting examples are illustrated (Received September 12, 2016)