More general common fixed point theorems under a new concept

Hakima BOUHADJERA [1]

[1] *Laboratory of Applied Mathematics, Badji Mokhtar-Annaba University, Annaba, Algeria*
E-mail: b_hakima2000@yahoo.fr

Abstract: A general common fixed point theorem for two pairs of weakly subsequentially continuous mappings (recently introduced) satisfying a significant estimated implicit function is proved. An extension of this result is thereby obtained. Our results assert the existence and uniqueness of common fixed points in several cases.

Keywords: subcompatible mappings, R-weakly commuting mappings of type $(\mathcal{A}_f)$ (resp. $(\mathcal{A}_g)$), sequentially continuous mappings of type $(\mathcal{A}_f)$ (resp. $(\mathcal{A}_g)$), weakly reciprocally continuous mappings, weakly subsequentially continuous mappings.

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