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- ^a Department of Mathematics, King Abdul Aziz University, Jeddah, Saudi Arabia
- ^b Department of Mathematics, Indiana University, Bloomington, IN, United States
- ^c Department of Mathematics, Bradley University, Peoria, IL, United States
- ^d Department of Mathematics, King Abdul Aziz University, P. O. Box 80203, Jeddah, 21589, Saudi Arabia

Abstract

A fixed point theorem of Ciric, Diviccaro et al., Fisher and Sessa, Gregus, Jungck, and Mukherjee and Verma is generalized to weakly compatible maps. As applications, common fixed point and approximation results for Gregus type I-contractions are obtained. Our results unify and generalize various known results to the more general classes of noncommuting mappings.

Author Keywords

Cq-commuting maps; Common fixed points; Condition (C); Diminishing-orbital diameters; Weakly compatible maps

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