On coupled coincidence and common fixed point theorems for different types of mappings satisfying rational type contractions in b-metric spaces

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Abstract:

In this paper, we study the existence and uniqueness of coupled coincidence and common fixed points for single-valued and fuzzy mappings under contraction condition of rational type in b-metric space with a partial order and prove the existence of coupled coincidence and common fixed points for two single-valued mappings.

Keywords:

Fuzzy, multi-valued and single-valued mappings, coupled coincidence and common fixed points, b-metric and ordered b-metric spaces, rational type contractions.

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