Multidimensional fixed point results for two hybrid pairs in partially ordered metric space

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Abstract:

In this paper, we introduce the notion of mixed weakly monotone property for two hybrid pairs and each of them consists of multi-valued mapping and single valued mapping defined on partially ordered metric space and then we prove coincidence and common fixed point theorems for two hybrid pairs under different contractive conditions. These theorems extend and generalize very recent results that can be found in [12] and many others.

Keywords:

Metric space, partially ordered set, fixed point of n order, multi-valued mapping, mixed weakly monotone property, w compatible mappings.

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