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Coincidence and Common Fixed Point Theorems for A Sequence of Mappings in Ordered Metric Spaces

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Abstract

In this article, the existence of coincidence points and common fixed points for a sequence of mappings satisfying generalized weakly contractive conditions which involves altering distance functions, without exploiting the notion of continuity of any map involved therein, in a ordered metric space is proved. An example is given to support the usability of our results.

Keywords: Ordered metric space, Coincidence point, Common fixed point, Partially Weakly increasing mappings, Generalized weakly contraction, Altering distance function.
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