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INNOVATION ON TRIPLED DISLOCATED METRIC SPACES WITH THE APPLICATION IN INTEGRAL EQUATIONS

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Abstract. In this paper, we introduce in the concepts of a tripled Hausdorff dislocated metric space, tripled partial metric space and tripled metric space. Then we dicuss fixed point theory for multi-valued mappings on tripled dislocated metric space. By using corollaries about complete tripled partial metric space and complete tripled metric space, we show that the theorem satisfied. We show some examples about tripled partial metric space and tripled metric space. Then, we give an application under research of a solution of an integral equation and by using corollary, which is present, prove a theorem. In the end, we give an example of our main results.

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