

Tripled coincidence theorems for monotone mappings in partially ordered metric spaces

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ABSTRACT.

In this paper, we establish tripled coincidence point theorems for a pair of mappings $F : X \times X \times X \rightarrow X$ and $g : X \rightarrow X$ satisfying a nonlinear contractive condition ordered metric spaces. Presented theorems extend several existing results in the literature: [Borcut, M. and Berinde, V., *Tripled coincident point theorems for contractive type mappings in partially ordered metric spaces*, Applied Mathematics and Computation, **218** (2012), No. 10, 5929–5936], and Berinde, Borcut in article [Berinde, V., Borcut, M., *Tripled fixed point theorems for contractive type mappings in partially ordered metric spaces*, Nonlinear Anal., **74** (2011), 4889-4897].

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