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A NOTE ON SOME TRIPLED COINCIDENCE POINT RESULTS IN G-METRIC SPACES

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Abstract

In this paper we have developed a new method of reducing tripled coincidence and tripled fixed point results in (ordered) G-metric spaces to the respective results for mappings with one variable, even obtaining (in some cases) more general theorems. Our results generalize, extend, unify and complement recently tripled coincidence point theorems established by Hassen Aydi et al . [H. Aydi, E. Karapinar, W. Shatanawi, Tripled common fixed point results for generalized contractions in ordered generalized metric spaces, Fixed Point Theory and Applications 2012, 2012:101, doi: 10.1186/1687-1812-2012-101] and Hassen Aydi et al. [H. Aydi, E. Karapinar, and W. Shatanawi, Tripled Fixed Point Results in Generalized Metric Spaces, Journal of Applied Mathematics, Volume 2012, Article ID 314279, 10 pages, doi: 10.1155/2012/314279]. Also, by using our method several recently coupled coincidence and coupled common fixed point results in ordered G-metric spaces can be reduced to the coincidence and common fixed point results with one variable.

Key Words and Phrases : *G-metric spaces, Tripled coincidence point, Partially ordered set.*

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