#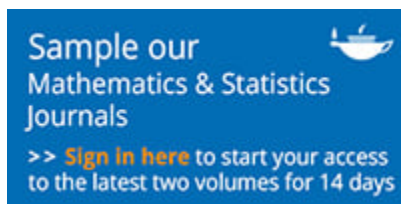 Some coincidence point results in the product space for solutions of the fuzzy of ordinary differential equations and integral equations systems

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Abstract

In this work, we will introduce the new classes of product spaces and also establish the existence of coincidence points in quasi-ordered fuzzy metric spaces. In order to investigate the integral equations and ordinary differential equations is solutions of the systems. Also study the property of mixed-monotone and comparable property of quasi-ordered fuzzy metric spaces in the product space. Our theorems improve and cover the corresponding recent results announced by Wu (2014) and Roldan et al. (2014).

AMS Classification:

- 47H09
- 47H10

Keywords:

- Fuzzy metric spaces
- coincidence point
- product spaces
- integral equations system
- ordinary differential equations system