Coupled fixed point results in generalized Kasahara spaces and applications

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We study the existence and uniqueness of solution for systems of operatorial equations

$$\begin{cases} x = f_1(x, y) \\ y = f_2(x, y) \end{cases},$$

where $f_1, f_2 : X \times X \to X$ are two operators, defined in a more general setting: the generalized Kasahara space $(X, \to, d)$, where $d : X \times X \to \mathbb{R}_+^m$ is a functional. Some applications are also presented.

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References

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