Abstract

In this paper we apply our former result [S. Lazaiz, K. Chaira, M. Aamri, and El M. Marhrani. Some remarks on Caristi type fixed point theorem. International Journal of Pure and Applied Mathematics, 104 (4): 585–597, 2015] to give a new results of iterated contraction mapping in complete metric space. As application we investigate the existence and uniqueness of solution for the nonlinear integral equation.

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Index Terms

Computer Science          Information Sciences
Keywords

Fixed point, Caristi’s theorem, Remarks, Nonlinear Integral equations