

**DUMITRU Dan**, *Contraction-Type Functions and Some Applications to GIIFS*

**Abstract**

The aim of this paper is to study some properties of the contraction-type functions of one or multiple variables such as weak Meir-Keeler, Meir-Keeler, strong Meir-Keeler, contractive and non-expansive functions. We establish some equivalences on compact metric spaces. We also investigate the families of uniformly strong Meir-Keeler functions and their relation to Meir-Keeler-type functions. In the end, we give some applications to generalized infinite iterated function systems.

**Keywords:** *contraction, contractive function, Meir-Keeler type functions, non-expansive function.*

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