Different approaches in the study of φ-contraction

Marija Cvetković[1]

[1]University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics,
marija.cvetkovic@pmf.edu.rs

The study of φ-contractions dates to 1968. and results of eminent researchers like F. E. Browder, D. W. Boyd and J. S. Wong. In the following half of century various modifications and improvements of this concept were in the spotlight of research in the area of Metric Fixed Point Theory. We intend to discuss on the relation of Boyd-Wong contraction, Matkowski contraction, Meir-Keeler contraction, Proinov contraction, F-contraction and θ-contraction. It is also of great importance to study possible applications and benefits of applying nonlinear contractions over Banach contraction and its modifications.

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