



SOME RECENT FIXED POINT RESULT OF F-CONTRACTIVE MAPPINGS - PowerPoint

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Introduction

- The opinion is that the most important result in the metrical theory of fixed points is the famous Banach contraction principle from 1922.
- This principle has been generalised and extended in several directions. One of the most interesting extensions was provided by Wardowski in 2013. He described a new contraction, so-called F -contraction and proved some new fixed point results which was a proper generalization of Banach contraction principle.
- Wardowski's theorem play a significant role in the further research in the metrical fixed point theory. Several authors (Srećković (2013,2016), Turanci (2013), Piri and Kumam (2014, 2016), Cosentino and Vetro (2015), Dang et al (2015), Miral et al (2014), Shukla et al (2014), Wardowski (2018), Wardowski and Ding (2014),....) generalized it by introducing the various type of F -contractions in other general metric spaces. Others have considered Wardowski's approach in a multi-valued case for metric spaces and its generalization.
- In this paper we established some new fixed point results of F -contractive mappings in metric spaces. The goal was to improve the already published results but using only one property (F1) of strictly increasing mapping F . We believe that our approach significantly improves, complements, generalizes and includes several known results in existing literature.

