

Article

Coincidence Point Results for Multivalued Suzuki Type Mappings Using θ -Contraction in b -Metric Spaces

Naeem Saleem ¹, Jelena Vujaković ^{2,*}, Wali Ullah Baloch ¹ and Stojan Radenović ^{3,4,*}

¹ Department of Mathematics, School of Science, University of Management and Technology, Lahore 54770, Pakistan; naeem.saleem2@gmail.com (N.S.); waliullah7861@gmail.com (W.U.B.)

² Faculty of Sciences and Mathematics, University of Priština, Lole Ribara 29, 38220 Kosovska Mitrovica, Serbia

³ Nonlinear Analysis research Group, Ton Duc Thang University, Ho Chi Minh City 700000, Vietnam

⁴ Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City 700000, Vietnam

* Correspondence: jelena.vujakovic@pr.ac.rs (J.V.); stojan.radenovic@tdtu.edu.vn (S.R.)

Received: 19 September 2019; Accepted: 22 October 2019; Published: 25 October 2019



Abstract: In this paper, we introduce the concept of coincidence best proximity point for multivalued Suzuki-type α -admissible mapping using θ -contraction in b -metric space. Some examples are presented here to understand the use of the main results and to support the results proved herein. The obtained results extend and generalize various existing results in literature.

Keywords: b -metric space; ψ -contraction; θ -contraction; α -admissible; best proximity points.

MSC: 47H10; 47H04; 47H07