

COINCIDENCE POINTS OF MULTIVALUED f -ALMOST NONEXPANSIVE MAPPINGS

MUJAHID ABBAS

Department of Mathematics
Lahore University of Management Sciences
54792-Lahore, Pakistan
E-mail: mujahid@lums.edu.pk

Abstract. V. Berinde and M. Păcurar [V. Berinde and M. Păcurar, Fixed points and continuity of almost contractions, *Fixed Point Theory*, 9(1)(2008), 23-34] introduced a concept of generalized multivalued almost contraction mapping and obtained a fixed point result for this new class of mappings. We extend this notion to multivalued f -almost contraction mappings and prove the existence of coincidence points for such mappings. As a consequence, coincidence point results are obtained for generalized multivalued f -almost nonexpansive mappings which assume closed values only. Related common fixed point theorems are also proved. Our results provide extension as well as substantial generalizations and improvements of several well known results in the existing literature.
Key Words and Phrases: Coincidence point, common fixed point, multivalued f -almost weak contraction.

2010 Mathematics Subject Classification: 47H10, 47H04, 60H25, 54H25.

Acknowledgment. The author would like to thank Professor Vasile Berinde for his comments and suggestions leading to improved version of the manuscript.

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Received: March 15, 2010; Accepted: October 10, 2010.