

# EXISTENCE OF PPF DEPENDENT FIXED POINTS OF MULTI-VALUED MAPPINGS

G. V. RAVINDRANADH BABU

Department of Mathematics, Andhra University, Visakhapatnam-530 003, India.

E-mail: gvr\_babu@hotmail.com

## ABSTRACT

We survey some relevant results on the existence of PPF dependent fixed points and discuss the existence of PPF dependent fixed points of weakly contractive type mappings. We extend our discussion to multi-valued mappings. Also, we study the existence of PPF dependent coincidence points of a pair consisting of single-valued and multi-valued mappings. Further, we extend our discussion to prove the existence of PPF dependent common fixed points of a pair of multi-valued mappings satisfying multi-valued generalized weakly contractive type condition.