# ON FUZZY GENERALIZED PRE REGULAR WEAKLY CONTINUITY

**Firdose Habib and Khaja Moinuddin**

Department of Mathematics,
Maulana Azad National Urdu University Hyderabad,
Urdu University Road, Hyderabad, Telangana - 500032, INDIA

E-mail : firdosehabib_90@gmail.com, kmoinuddin71@gmail.com

**Abstract:** In this paper Fuzzy generalized pre regular weakly continuity has been introduced. Also, Fuzzy generalized pre regular weakly-irresolute functions, Fuzzy generalized pre regular weakly open mappings, Fuzzy generalized pre regular weakly closed mappings has been introduced and investigated.

## 1. Introduction

The concept of fuzziness has been implemented in almost all branches of mathematics. With the advent of fuzzy theory in 1965 research has taken place at a rapid pace in this field and almost fuzzification of every branch of mathematics took place. Fuzzy topology introduced by C. L Chang [2] in 1968 is the generalization of the classical topology and with its introduction various fuzzy sets were introduced and studied. Fuzzy function, Fuzzy continuous function and fuzzy uniformly continuous functions were introduced and studied by Zhang Guang-Quan in 1989 in the paper [9] titled "Fuzzy continuous function and its properties". In 1992 fuzzy-continuous functions were introduced and studied by Jae Rong Choi et.al [3]. In 2017 Fuzzy weakly e-closed functions were introduced and studied by