

$N_{nc}\beta$ -CONTINUOUS MAPS

A. Vadivel, C. John Sundar and P. Thangaraja*

Department of Mathematics,
Annamalai University,
Annamalai Nagar - 608002, Tamil Nadu, INDIA

E-mail : avmaths@gmail.com, johnphdau@hotmail.com

*Department of Mathematics,
Mahendra Engineering College,
Nammakal - 637503, Tamil Nadu, INDIA

E-mail : thangarajap1991@gmail.com

(Received: Sep. 28, 2021 Accepted: Jun. 12, 2022 Published: Aug. 30, 2022)

Abstract: In this article, we study a new types of mappings using N -neutrosophic crisp β open sets such as continuous mappings and irresolute mappings in N -neutrosophic crisp topological spaces were introduced. Also, we discussed about their properties in relation with the other continuous and irresolute mappings in N -neutrosophic crisp topological spaces. Also, we study about the concept of strongly N -neutrosophic crisp β continuous and perfectly N -neutrosophic crisp β continuous functions in N_{nc} topological spaces with their properties.

Keywords and Phrases: $N_{nc}\beta$ -open sets, $N_{nc}\beta$ -closed sets, $N_{nc}\beta Cts$, $N_{nc}\beta Irr$, $StN_{nc}\beta Cts$, $PeN_{nc}\beta Cts$.

2020 Mathematics Subject Classification: 54A05, 54A10, 54C08.

1. Introduction

The ideal concepts of neutrosophy and neutrosophic set was first presented by Smarandache [13, 14, 16] at the beginning of 21st century. In 2014, the concept of neutrosophic crisp topological space presented by Salama, Smarandache and Kroumov [11]. Al-Omeri [3] also investigated neutrosophic crisp sets in the