

1154-VU-769

Zeinab Bandpey* (zeinab.bandpey@morgan.edu), Morgan State University, E cold Spring Lane, Baltimore, MD 21251. *Compact and extremally disconnected spaces via generalized continuous functions.*

In [1], the class of compact and extremally disconnected spaces were studied using several investigative tools such as filters, graphs, functions, multifunctions and subsets of the space. These different approaches of investigation produced significant characterizations and properties of this important class of spaces. In[2] we introduced three forms of generalized continuous functions by studying the class of u-continuous functions of Joseph, Kwack and Nayar [3] using the concepts of an α -set of Njastad [4]. The generalized continuous forms introduced there are: α u-continuous, semi- α u-continuous and strongly u-continuous functions. In the present study we investigate the class of compact and extremally disconnected spaces using these generalized continuous functions. (Received September 10, 2019)