REGULAR LOCAL FUNCTIONS IN IDEAL TOPOLOGICAL SPACES

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Abstract

This paper deals with a space in which topology is replaced by its generalized open sets. We define an operator $A^{*r}(I, \text{RO}\ (X,\tau))$ called the regular local function of A with respect to I and RO (X,τ) as follows: $A^{*r}(I, \text{RO}\ (X,\tau)) = \{x \in X : A \bigcap U \notin I \text{ for every } U \in \text{RO}\ (X,x)\}$. We investigate properties of $A^{*r}(I, \text{RO}\ (X,\tau))$.

Keywords: Regular open set, regular closed set,ideal topological space, local function, regular local function

References

[1] A. Vadivel and Mohanarao Navuluri, Regular semi local functiobs in ideal topological spaces, *Journal of Advenced Research in Scientific Computing* **5** (2013) 1-6.

[2] Ahmad Al Omari and Takashi Noiri, Local closure functions in ideal topological spaces, *Novi Sad J. Math.* **43** (2013) 139-149.

[3] Kuratowski K, Topology, *Academic Press, NewYork* **1** (1966).

[4] M. Khan and T.Noiri, Semi local functions in ideal topological spaces, *Journal of Advenced Research in Pure Mathematics* **2** (2010) 36-42.

[5] Nirmala Rebecca Paul, RgI-closed sets in ideal topological spaces, *International Journal of Computer Applications* **69** (2013).

[6] Sukalyan Mistry and Shyamapada Modak, $()^{*p}$ and Ψ_p Operator, *International Mathematical Forum* **7** (2012) 89-96.

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