Topological Neutrosophic Ideal Theory

Neutrosophic Local Function and Generated Neutrosophic Topology

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Abstract: In this paper we introduce the notion of ideals on neutrosophic set which is considered as a generalization of fuzzy and fuzzy intuitionistic ideals studies in [9,11], the important topological neutrosophic ideals has been given in [4]. The concept of neutrosophic local function is also introduced for a neutrosophic topological space. These concepts are discussed with a view to find new neutrosophic topology from the original one in [8]. The basic structure, especially a basis for such generated neutrosophic topologies and several relations between different topological neutrosophic ideals and neutrosophic topologies are also studied here. Possible application to GIS topology rules are touched upon.

KEYWORDS: Neutrosophic Set, Intuitionistic Fuzzy Ideal, Fuzzy Ideal, Topological neutrosophic ideal, Neutrosophic Topology.