A quest of G-continuity in neutrosophic spaces

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Abstract

Continuity, in particular sequential continuity, is an important subject of investigation not only in Topology, but also in some other branches of Mathematics. Connor and Grosse-Erdmann remodeled its definition for real functions by replacing {\sf lim} with an arbitrary linear functional G defined on a linear subspace of the vector space of all real sequences. Then, this definition was extended to a topological group X by replacing a linear functional G with an arbitrary additive function defined on a subgroup of the group of all X-valued sequences. Also, some new theorems in generalized setting were given and some other theorems that had not been obtained for real functions were presented. In this study, we introduce neutrosophic G-continuity and investigate its properties in neutrosophic topological spaces.

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