Title:On γ-Semi-Open Sets

Abstract: The idea of examining generalized open sets in generalized topological spaces was given by Á. Császár. Generalized $\bigwedge_s$-sets and generalized $\bigvee_s$-sets were introduced by Miguel Caldas and Julian Dontchev in general topology. Maheshwari and Prasad in 1975 introduced two new classes called semi-T_1 spaces and semi-R_0 spaces. We give the definitions of γ-semi-open set, γ_s-set and γ^s-set by using γ-open sets. Also we aimed to show that the concepts of $g.\bigwedge_s$-set , $g.\bigvee_s$-set, semi-T_1 space and semi-R_0 space can be generalized by replacing semi-open sets with γ-semi-open sets for any arbitrary $\gamma \in \Gamma(X)$.These concepts should be considered in generalized topological spaces instead of general topology.