Abstract

The main purpose of this research is to study the concept of supra generalized closed sets in supra bitopological spaces. This study includes three objectives.

The first objective deals with the basic concepts of supra topological space. In the second objective, we study the notion of supra bitopological space and the basic properties of this space and give several examples to explain these properties. In the third objective, we give the notion of supra generalized closed sets in supra bitopological spaces and study this new class of sets with several properties and examples. Finally, as an application of these sets, the concept of $S_{\tau_{ij}}\text{-}T_{\frac{1}{2}}\text{-}$ space is studied in supra bitopological spaces.