S-I-CONVERGENCE OF SEQUENCES

Andrés Guevara, José Sanabria, And Ennis Rosas

Abstract

In this article, we use the notions of a semi-open set and topological ideal, in order to define and study a new variant of the classical concept of convergence of sequences in topological spaces, namely, the S-I-convergence. Some basic properties of S-I-convergent sequences and their preservation under certain types of functions are investigated. Also, we study the notions related to compactness and cluster points by using semi-open sets and ideals. Finally, we explore the Iconvergence of sequences in the cartesian product space

Keywords

I-convergence; Semi-open sets; S-I-convergence; Semi-closure; Semi-compactness; Semicontinuous function; Irresolute function