Abstract

The concept of Soft Tritopological Space is introduced in this paper, which we defined it over an initial universe with a fixed set of parameters. Also some new definitions of soft open sets in soft tritopological spaces are introduced and investigated, which are called soft $\tau_1 \tau_2 \tau_3$-open set, soft $\tau_1 \tau_2 \tau_3$-pre-open set, soft $\tau_1 \tau_2 \tau_3$-$\alpha$-open set (soft tri-$\alpha$-open set) and soft $\delta^*$-open set. Consequently we can say that the soft tritopological spaces are more comprehensive and generalized than the classical tritopological spaces.

References

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Keywords

Soft set, Soft topological space, Soft bitopological space, Soft tritopological space, soft $\tau_1\tau_2\tau_3$-open set, soft $\tau_1\tau_2\tau_3$-pre-open set, soft $\tau_1\tau_2\tau_3$-$\alpha$-open set (or soft tri-$\alpha$-open set), soft $\delta^*$-open set.