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

2. P.K. Maji, A. R. Roy, R. Biswas, An application of soft sets in a decision making problem,

Index Terms

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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.