Abstract

In this paper, we introduce the notion of \( p \)-separated soft sets based on the soft space \((X, \eta_{12}, E)\) which generate by soft bitopological space \((X, \eta_1, \eta_2, E)\) and study some of its properties. Based on this notion we introduce the notions of \( p \)-soft connected(disconnected) spaces and study some of their characterizations and properties. Also, we study the connected of \( p \)-soft sets by using the soft space \((X, \eta_{12}, E)\).
Some examples have given to support these concepts.

References

2666–2672.

**Index Terms**

Computer Science  Applied Mathematics

**Keywords**

Soft set; Soft topology; Soft bitopological spaces;