

# A study on intuitionistic fuzzy supra soft topological spaces

Cigdem GUNDUZ ARAS

Department of Mathematics, Kocaeli University, Kocaeli, Turkey

E-mail: caras@kocaeli.edu.tr

**Abstract:** The aim of this paper is to introduce some necessary definitions on the so called "intuitionistic fuzzy supra soft topological spaces". Furthermore, we give definitions of fuzzy strongly supra soft connected and fuzzy supra soft continuous mapping. We present characterization theorems of their. Finally, we define intuitionistic fuzzy supra soft compactness and investigate some results of intuitionistic fuzzy soft compactness.

**Keywords:** intuitionistic fuzzy supra topology, fuzzy strongly supra soft connected

**2010 Mathematics Subject Classification:** 03E75, 54A40

## REFERENCES

- [1] Molodtsov, D., "Soft set-theory-first results", *Comput. Math. Appl.*, Vol. 37, pp.19-31, 1999.
- [2] Turanlı, N., "An Overview of Intuitionistic Fuzzy Supratopological Spaces", *Hacettepe Journal of Math. Statistics*, Vol.32, pp. 17-26, 2003.
- [3] Bayramov, S., Gunduz Aras, C., "On Intuitionistic Fuzzy Soft Topological Spaces", *TWMS J. Pure Appl. Math.*, Vol.5, No.1, pp. 66-79, 2014.