

INTUITIONISTIC L-FUZZY SOFT SEMIRINGS

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Abstract: The aim of this paper is to study the concept of Intuitionistic L-fuzzy soft semiring and Intuitionistic L-fuzzy soft subsemiring. The Intuitionistic L-fuzzy soft subsemiring and its level set are defined. The homomorphism of Intuitionistic L-fuzzy soft semiring defined under the Intuitionistic L-fuzzy soft function. The results based on the Intuitionistic L-fuzzy soft semiring and its homomorphism are determined.

Keywords and Phrases: Intuitionistic fuzzy set, Intuitionistic L-fuzzy set, Intuitionistic L-fuzzy soft ring, Intuitionistic L-fuzzy soft semiring.

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1. Introduction

Soft set theory is initiated by Molodtsov. D in [7]. Researchers all over the globe are working with soft sets and soft sets such as fuzzy soft sets, L-fuzzy soft sets. The theory of Intuitionistic fuzzy set plays an important role in modern mathematics. The idea of Intuitionistic L-fuzzy set (ILFS) was introduced by Atanassov. K. T (1986) [1] as a generalization of Zadeh. L. A (1965) [16] fuzzy