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in this paper intuitionistic fuzzy  $z$  numbers that are a new extension of fuzzy sets are proposed for the first time first fuzzy  $z$  numbers and intuitionistic fuzzy numbers are determined as preliminaries then definitions and defuzzification of intuitionistic fuzzy  $z$  numbers are proposed the concept of intuitionistic fuzzy matrices which we denote by ifm finite intuitionistic fuzzy relations is an extension to the concept of fuzzy matrices fm this motivates us to study ifm since it is widely applied than fm intuitionistic fuzzy sets ifss were introduced by atanassov in 1 as a generalization of ordinary fuzzy sets in ifss the sum of degrees of membership and non membership is not necessarily equal to one allowing another complementary parameter to be incorporated into the membership function the idea for intuitionistic fuzzy sets ifss see 4 5 from  $n$  th type ifs  $n$  t was introduced by the first author in 1989 see 2 and illustrated for the case of second type in 3 in 2 the geometrical interpretation of the ifs 2t is given the results of this paper were extended sequentially in 3 4 17 the notions of intuitionistic fuzzy set ifs and intuitionistic  $l$  fuzzy sets ilfs were introduced in 1 21 and 3 respectively as a generalization of the notion of fuzzy set fs let a set  $e$  be fixed thus the theory of intuitionistic fuzzy sets ifss atanassov is more

flexible in dealing with vagueness and uncertainties in knowledge representation and logic reasoning on the other hand many scholars are interested in the enhancement of reasoning efficiency and reliability of fuzzy systems. In most existing fuzzy systems the input output the intuitionistic fuzzy planarity and genus of IFGS are investigated this chapter devoted to IFGS is written based on the papers [23, 24, 25, 26, 27, 28, 29, 30] for more information on IFGS readers may consult the articles [5, 9, 12, 13, 15, 16, 17, 20, 21, 32, 35].

1. Definitions and basic properties of intuitionistic fuzzy  $b$  set generalizes the concept of classical fuzzy  $b$  set intending to assess the ambiguity level of a fuzzy situation in this research we have presented cosets and subgroups of intuitionistic  $b$  fuzzy sets and then used these concepts to construct the intuitionistic  $b$  fuzzy normal subgroup the intuitionistic fuzzy concept oriented three way decision model recently some researchers have explored three way decision models in the fuzzy multi criteria environments from the perspective of criterion fuzzy concept the main characteristics of these models include the subjective preference of decision maker for criteria and the characteristic of fuzzy sets is that the range of truth value of the membership relation is the closed interval  $[0, 1]$  of real numbers the logical operations on  $[0, 1]$  which are used for Zadeh's fuzzy sets seem to be Lukasiewicz's logic where  $p \oplus q = \min(1, 1 + p + q)$ ,  $p \otimes q = \max(0, p + q - 1)$ .

Abstract in this paper a new kind of intuitionistic fuzzy subgroup theory which is different from that of Ma Zhan and Davvaz (2008, 22, 23) is presented first based on the concept of cut sets on intuitionistic fuzzy sets we establish the neighborhood relations between a fuzzy point  $x$  and an intuitionistic fuzzy set  $A$  this chapter describes the definition and operations of fuzzy and intuitionistic fuzzy set IFST theory with examples in a fuzzy set the degree of membership of an element signifies the extent to which the element belongs to a fuzzy set  $i \in E$

there is a gradation of membership value of each element in a set the intuitionistic fuzzy set if theory is based on extensions of corresponding definitions of fuzzy set objects and definitions of new objects and their properties keywords geometric interpretation fuzzy graph discrete norm ordinary graph finite universe these keywords were added by machine and not by the authors provides detailed mathematical exposition of the fundamentals of fuzzy set theory including intuitionistic fuzzy sets this book examines fuzzy and intuitionistic fuzzy mathematics and unifies the latest existing works in literature it enables readers to fully understand the mathematics of both fuzzy set and intuitionistic fuzzy set so that they can use either one in their applications each pdf on mar 5 2014 ejegwa paul augustine published an overview on intuitionistic fuzzy sets find read and cite all the research you need on researchgate abstract intuitionistic fuzzy values each characterized by a membership degree and a nonmembership degree are the basic components of intuitionistic fuzzy sets arithmetic operations on intuitionistic fuzzy values sets are of importance in practical problem solving also we define topologically complete intuitionistic fuzzy metrizable spaces and prove that any  $g$  ? set in a complete intuitionistic fuzzy metric spaces is a topologically complete intuitionistic fuzzy metrizable space and vice versa finally we define intuitionistic fuzzy normed spaces and fuzzy boundedness for linear operators and so we in this paper we introduce the new method for solving the intuitionistic fuzzy transportation problem iftp by using north west corner method and modified distribution method to find the optimal solution for iftp

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