Fuzzy Ideal In Near Subtraction Semirings

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Fuzzy Ideal In Near Subtraction

Theorem 3.5 Let f: $X \to X$ be a homomorphism of near-subtraction ordered semigroups. If μ is a fuzzy ideal of X , then μf is a fuzzy ideal of X. Proof. Suppose that μ is a fuzzy ideal of X. (i) For all $x,y \in X$, we have $\mu f(x-y)=\mu(f(x-y)) = \mu(f(x)- f(y)) \geq \min\{\mu(f(x)),\mu(f(y))\} = \min\{\mu f(x),\mu f(y)\}$. (ii) For all $a,b,x \in X$, we have

On Fuzzy Ideals in Near-Subtraction Ordered Semigroups

In this paper, the notion of anti fuzzy ideals in near subtraction semigroups is introduced and investigated some related properties.

A NOTE ON ANTI FUZZY IDEALS OF NEAR-SUBTRACTION SEMIGROUPS ...

We establish that every fuzzy left (resp. right) N-subgroup or fuzzy left (resp. right) ideal of a near-ring is a fuzzy bi-ideal of a near-ring. But the converse is not neceassrily true as shown by...

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Fuzzy Ideal In Near Subtraction ideal with sup property is fuzzy ideal. Proof: Let $f : X \longrightarrow X$ be an onto homomorphism of near-subtraction semigroup and let μ be a fuzzy ideal of X with (PDF) S-Fuzzy Ideals in Near-subtraction Semigroups Theorem 3.5 Let f: $X \to X$ be a homomorphism of near-subtraction ordered semigroups. If μ is a fuzzy ideal of X , then μf is a fuzzy ideal of X. Proof.

Fuzzy Ideal In Near Subtraction Semirings

Topics: subtraction algebra, subtraction semigroup, an ideal, near-subtraction semigroup, fuzzy level set, fuzzy ideal, fuzzy homomorphism.

Fuzzy Ideals in Near-subtraction Semigroups - CORE

Definition 2.8 Let X be a near-subtraction ordered semigroup. A non-empty subset I of X is called a right ideal of X if : (1) I is a subalgebra of X. (2) $IX \subseteq I$. (3) For $a \leq b$ and $b \in I$ implies $a \in I$. I is called an ideal of X if I is both a left and right ideal of X. A mapping $\mu: X \to [0,1]$ is called fuzzy set of X and the complement of a

On Normal Fuzzy Ideals in Near-Subtraction Ordered Semigroups

interior ideal and intuitionistic fuzzy bi-ideal of a subtraction semigroup. We characterize a non-empty subset of a subtraction semigroup X through intuitionistic fuzzy ideal, intuitionistic fuzzy bi-ideal and intuitionistic fuzzy interior ideal.

On Fuzzy Ideals Of Subtraction Semigroups

Cubic Ideals in Near Subtraction Semigroups Fuzzy set theory plays a significant role in mathematics. The study of algebra in fuzzy setting has always attracted researchers to a greater extend. Young Bae Jun made effort in defining a remarkable structure namely cubic structure and ideal theory in subtraction algebra.

Cubic Ideals in Near Subtraction Semigroups

If 6 is a map from S into [0, 1] then these are equivalent: (1) 6 is a fuzzy right ideal; (2) 6 is a fuzzy left ideal; (3) 6 is constant on each G~ and r~<s 6(lr)/> 6(ls) for all r, s c L. We shall prove the equivalence of (1) and (3); the remaining equivalence follows from a similar argument. First suppose that 6 is a fuzzy right ideal.

Fuzzy ideals in semigroups - ScienceDirect

Let X be a zero-symmetric near subtraction semi group admitting mate functions. Then X is a ´ near subtraction semigroup, with E⊆ iff X is a ´ near subtraction semigroup. Any homomorphic image of weak bi Corollary:3.1The following conditions are equivalent in a near subtraction semi group X with mate functions. i.

CHARACTERIZATION OF WEAK BI-IDEALS IN NEAR SUBTRACTION ...

K.J.Lee and C.H.Park [8] introduced the notion of a fuzzy ideal in subtraction algebras, and give some conditions for a fuzzy set to be a fuzzy ideal in subtraction algebras. The most appropriate theory for dealing with uncertainties is the theory of fuzzy sets developed by Zadeh [13]. Manikandan [9] studied fuzzy bi-ideals of near-ring and

CUBIC BI-IDEALS OF NEAR-SUBTRACTION SEMIGROUPS

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[9] P. Dheena and G. Mohanraj, Fuzzy weakly prime ideals in near-subtraction semigroups. Annals of Fuzzy Mathematics and Informatics, 4(2) (2012), 235-242. [10] Y. B. Jun, Kyung Ja Lee and Asghar Khan, Ideal theory of subtraction algebras.

Fuzzy soft ideals of near-subraction semigroups

In 1965, Zadeh (Zadeh, 1965) introduced the concept of fuzzy subset. Abou-Zaid (Abou Zaid, 1991) introduced the notion of a fuzzy subnear- ring, and studied fuzzy left (right) ideals of a near-ring, and gave some properties of fuzzy prime ideals of a near-ring.

On fuzzy quasi prime ideals in near left almost rings

In this article, we introduced the notions fuzzy soft subalgebras and fuzzy soft ideal of subtraction algebras. We showed that fuzzy soft image and fuzzy soft inverse image of fuzzy soft ideal are both fuzzy soft ideal under certain conditions. We have studied their related properties in details. Published: 16 November 2011

Fuzzy soft ideals in subtraction algebras | SpringerLink

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): The notion of an interval-valued fuzzy ideal in subtraction algebra is introduced and related properties are investigated. Mathematics Subject Classification: 03G25, 03E72

CiteSeerX — Ideals of Subtraction Algebras Based on ...

The present paper contains the sufficient condition of a fuzzy semigroup to be a fuzzy group using fuzzy points. The existence of a fuzzy kernel in semigroup is explored. It has been shown that every fuzzy ideal of a semigroup contains every minimal fuzzy left and every minimal fuzzy right ideal of semigroup. The fuzzy kernel is the class sum of minimal fuzzy left (right) ideals of a semigroup.

On Minimal Fuzzy Ideals of Semigroups

ANTI Q-FUZZY BI-IDEALS IN NEAR-SUBTRACTION SEMIGROUPS. M. Muthukumari SOME NEW SETS ON GENERALIZED TOPOLOGY. J. Carlin and M. Muthukumari TRI β FUNCTION. P. Meenakshi and N. Meenakumari ON GENERALIZED RIGHT PERMUTABLE Γ-NEAR SUBTRACTION SEMIGROUPS. J. Vijaya Xavier Parthipan and S. Muthu Kumar

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Indeed, since F is an (∈, ∈ ∨q)-fuzzy right ideal of S, and , we have Thus I a is a right ideal of S. In a similar way we can prove that: Proposition 4.11 LetSbe an ordered semigroup andFan (∈, ∈ ∨q)-fuzzy left ideal ofS. ThenI a is a left ideal ofSfor everya ∈ S. Combining Propositions 4.10 and 4.11 we have the following: