

Fuzzy Generalized Bi-ideals of Γ -Semigroups

Samit Kumar Majumder¹

and

Manasi Mandal²

¹Tarangapur N.K High School, Tarangapur,
Uttar Dinajpur, West Bengal-733129, INDIA

²Department of Mathematics, Jadavpur
University, Kolkata-700032, INDIA

¹samitfuzzy@gmail.com

²manasi_ju@yahoo.in

Abstract

In this paper we introduce the concept of fuzzy generalized bi-ideal of a Γ -semigroup, which is an extension of the concept of a fuzzy bi-ideal of a Γ -semigroup and characterize regular Γ -semigroups in terms of fuzzy generalized bi-ideals.

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Key Words and Phrases: Γ -Semigroup, Regular Γ -semigroup, Fuzzy left(right) ideal, Fuzzy ideal, Fuzzy bi-ideal, Fuzzy generalized bi-ideal.

1 Introduction

A semigroup is an algebraic structure consisting of a non-empty set S together with an associative binary operation[10]. The formal study of semigroups began in the early 20th century. Semigroups are important in many areas of mathematics, for example, coding and language theory, automata theory, combinatorics and mathematical analysis. The concept of fuzzy sets was introduced by Lofti Zadeh[27] in his classic paper in 1965. Azriel Rosenfeld[17] used the idea of fuzzy set to introduce the notions of fuzzy subgroups. Nobuaki Kuroki[12, 13, 14, 16] is the pioneer of fuzzy ideal theory of semigroups. The idea of fuzzy subsemigroup was also introduced by Kuroki[12, 14]. In [13], Kuroki characterized several classes of semigroups in terms of fuzzy left, fuzzy right and fuzzy bi-ideals. The notion of fuzzy generalized bi-ideals in semigroups was introduced by Kuroki[15]. Others who worked on fuzzy semigroup theory, such as X.Y.

Generalized N Fuzzy Ideals In Semigroups

Xiaolong Qi



Generalized N Fuzzy Ideals In Semigroups:

Decoding **Generalized N Fuzzy Ideals In Semigroups**: Revealing the Captivating Potential of Verbal Expression

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Generalized N Fuzzy Ideals In Semigroups Introduction

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