Generalized fuzzy α-ideals and fuzzy α-ideals in semigroups

Feng Yan[1,*], Jian Tang[2], Xiang-Yun Xie[3]

(1. Department of Education, Luoding Polytechnic, Luoding, Guangdong, 527200, China;
2. School of Mathematics and Computational Science, Fuyang Normal College, Fuyang, Anhui, 236041, China;
3. School of Mathematics and Computational Science, Wuyi University, Jiangmen, Guangdong, 529020, China.)
* Corresponding author. Email: yanfeng2007@126.com

Abstract—In this paper, we introduce the concepts of generalized fuzzy α-ideals and fuzzy α-ideals of semigroups, and study their related properties by fuzzy points.

Keywords-Generalized fuzzy α-ideal; fuzzy α-ideal; fuzzy point

I. INTRODUCTION AND PRELIMINARIES

Let S be a nonempty set. A fuzzy subset of S is, by definition, an arbitrary mapping $f : S \longrightarrow [0,1]$, where $[0,1]$ is the usual interval of real numbers. The important concept of a fuzzy set put forth by Zadeh in 1965 [2] has opened up keen insights and applications in a wide range of scientific fields. As we know, ideals of a semigroup play an important role in the study to semigroup. As a generalization for ideals of semigroups, the notion of α-ideal was given, and many people discussed it (see [5-7, 10]). By $P(S)$ we denote the semigroup of all subsets of a semigroup S under set product with the unity $\emptyset$. X^* denote the free monoid over an alphabet X. For $\alpha \in \{0,1\}^*$, $f_\alpha^S : P(S) \longrightarrow P(S)$ is defined as: $f_\alpha^S(A) = \emptyset$, if α is the empty word, and $f_\alpha^S(A) = A_1 A_2 ... A_n$, if $\alpha = \alpha_1 \alpha_2 ... \alpha_n, \alpha_i \in \{0,1\}$, where

$$A_i = \begin{cases} A, & \alpha_i = 1; \\ S, & \alpha_i = 0. \end{cases}$$

A subset A of S is called a generalized α-ideal, if $f_\alpha^S(A) \subseteq A$. From this point of view, we can see that, many of our familiar ideals are the special cases of α-ideals if we let α be special words. They are discussed universally in many high-quality research articles (see [3, 4, 8, 9]).

In our present paper, on the base of fuzzy sets [2], we discuss generalized fuzzy α-ideals and fuzzy α-ideals as a generalization for fuzzy ideals of semigroups. We give some properties of fuzzy α-ideals by fuzzy points and an equivalent condition that a generalized fuzzy α-ideal to be fuzzy α-ideal.

The reader is referred to [1, 5] for notation and terminology not defined in this paper.

II. GENERALIZED FUZZY α-IDEALS AND FUZZY α-IDEALS OF SEMIGROUPS

Let S be a semigroup. By X^* we denote the free monoid over an alphabet X. By $F(S)$ we denote the set of all fuzzy subsets of S. For $x \in S$, we define $A_x := \{(y,z) \in S \times$

$S \mid x = yz\}$. For $f, g \in F(S)$, the product $f \circ g$ is defined by

$$(f \circ g)(x) = \begin{cases} \bigvee_{(y,z) \in A_x} [\min\{f(y), g(z)\}], & \text{if } A_x \neq \emptyset, \\ 0, & \text{if } A_x = \emptyset. \end{cases}$$

for all $x \in S$. We can see that $F(S)$ is a semigroup under this product. For $\alpha \in \{0,1\}^*$, we define $\varphi_\alpha^S : F(S) \longrightarrow F(S)$ as follows:

$\varphi_\alpha^S(f) = 0$, if α is the empty word, and $\varphi_\alpha^S(f) = f_1 \circ f_2 \circ ... \circ f_n$, if $\alpha = \alpha_1 \alpha_2 ... \alpha_n, \alpha_i \in \{0,1\}$, where

$$f_i = \begin{cases} f, & \alpha_i = 1, \\ S, & \alpha_i = 0, \end{cases}$$

here $S(x) = 1, \forall x \in S$.

In the following paper, we will put $\varphi_\alpha^S(f) := \varphi_\alpha(f)$.

Lemma 2.1 *Let $f, g, h \in F(S)$. Then $f \subseteq g$ implies $f \circ h \subseteq g \circ h$ and $h \circ f \subseteq h \circ g$.*

Proof Let $x \in S$ and $f \subseteq g$. If $x = yz$ for some $y, z \in S$, we have

$$\begin{aligned} (f \circ h)(x) &= \bigvee_{x=yz} \{f(y) \wedge h(z)\} \\ &\leq \bigvee_{x=yz} \{g(y) \wedge h(z)\} \\ &= (g \circ h)(x). \end{aligned}$$

Otherwise, $(f \circ h)(x) = 0 = (g \circ h)(x)$. Hence $f \circ h \subseteq g \circ h$. Similarly, $h \circ f \subseteq h \circ g$.

Lemma 2.2 *$\varphi_\alpha(f) \subseteq \varphi_\alpha(g)$, whenever $f \subseteq g \subseteq S$.*

Proof Let $\alpha = \alpha_1 \alpha_2 ... \alpha_n, \alpha_i \in \{0,1\}$ and $f \subseteq g \subseteq S$. By Lemma 2.1, we have $\varphi_\alpha(f) = f_1 \circ f_2 \circ ... \circ f_n \subseteq g_1 \circ g_2 \circ ... \circ g_n = \varphi_\alpha(g)$.

It is easy to see the following lemma:

Lemma 2.3 *$\varphi_{\alpha\beta}(f) = \varphi_\alpha(f) \circ \varphi_\beta(f)$, for $\alpha, \beta \in \{0,1\}^*$ and $f \in F(S)$.*
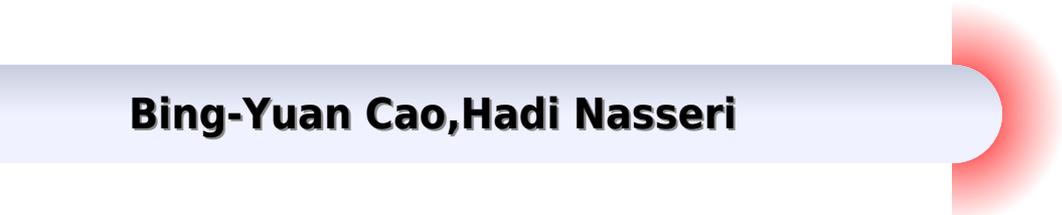
Let us put $\Lambda = \{0,1\}^* \setminus \{1\}^*$.

Lemma 2.4 *Let $f \in F(S)$ and $\alpha \in \Lambda$. Then $f \circ \varphi_\alpha(f) \subseteq \varphi_\alpha(f)$ and $\varphi_\alpha(f) \circ f \subseteq \varphi_\alpha(f)$.*

Proof We suppose that $\alpha = \alpha_1 \alpha_2 ... \alpha_n, \alpha_i \in \{0,1\}$, and $\alpha_j = 0$ for some j with $\alpha_i = 1$ for $i < j$. If $j = 1$, i.e. $\alpha = 0\alpha_2 ... \alpha_n$, then $f \circ \varphi_\alpha(f) = f \circ S \circ f_2 \circ ... \circ f_n \subseteq S \circ f_2 \circ$

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