

COMPLEX FUZZY SOFT GROUP

(Kumpulan Lembut Kabur Kompleks)

MIKHLED O. ALSARAHEAD & ABD GHAFUR AHMAD

ABSTRACT

In this paper, we define complex fuzzy soft group and introduce some new concepts such as complex fuzzy soft functions and homogeneous complex fuzzy soft sets. Then we investigate some characteristics of complex fuzzy soft group. The relationship between complex fuzzy soft group and fuzzy soft group is also investigated. It is found that every complex fuzzy soft group yields two fuzzy soft groups. Finally we define the image and inverse image of a complex fuzzy soft group under complex fuzzy soft homomorphism and we study their elementary properties.

Keywords: complex fuzzy soft group; homogeneous complex fuzzy soft set; complex fuzzy soft homomorphism

ABSTRAK

Dalam makalah ini, ditakrifkan kumpulan lembut kabur kompleks dan perkenalkan beberapa konsep baharu seperti fungsi lembut kabur kompleks dan set lembut kabur kompleks yang homogen. Kemudian diselidiki beberapa cirian bagi kumpulan lembut kabur kompleks. Hubungan di antara kumpulan lembut kabur kompleks dengan kumpulan lembut kabur juga diselidiki. Ditemui bahawa setiap kumpulan lembut kabur kompleks menghasilkan dua kumpulan lembut kabur. Akhirnya ditakrifkan imej dan imej songsang bagi kumpulan lembut kabur kompleks di bawah homomorfisma lembut kabur kompleks serta dikaji sifat-sifat permulaannya.

Kata kunci: kumpulan lembut kabur kompleks; set lembut kabur kompleks yang homogen; homomorfisma lembut kabur kompleks

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Mikhled Okleh Alsarahead & Abd Ghafur Ahmad

*School of Mathematical Sciences
Faculty of Science and Technology
Universiti Kebangsaan Malaysia
43600 UKM Bangi
Selangor DE, MALAYSIA
E-mail: mekhledsarheed@yahoo.com*, ghafur@ukm.edu.my*

*Corresponding author