

Some Results on Fuzzy Norm -Matrices

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Abstract

In this paper we introduce fuzzy norm matrices using the structure of $M_n(F)$, the set of $(n \times n)$ fuzzy norm matrices is introduced. Also, we introduce the concept of fuzzy norms and some properties of fuzzy norm -matrices.

Keywords: Fuzzy matrix, Fuzzy norm matrix, determinant of a square fuzzy matrix.

1. Introduction

The concept of fuzzy set was introduced by [5]Zadeh in 1965. Nagoorgani A. and Kalyani G. [3] introduced the properties of fuzzy m-norm matrices. In 1995, Ragab M. Z. and Emam E. G.[1] introduced the determinant and adjoint of a square fuzzy matrix. Nagoorgani A. and Kalyani G. Meenakshi A.R. and Cokilavany R. [2] introduced the concept of fuzzy 2-normed linear spaces. [4]Nagoorgani A. and Manikandan A.R. introduced the concept of Integrals over Fuzzy Matrices

In this paper, we introduce the concept of fuzzy norm matrices. The purpose of the introduction is to explain determinant of norms and its properties are discussed.