



Applications from Karpagam University, Coimbatore, India. Her Researc area of interests is Fuzzy Algebra and its applications. She has more tha eleven years of working experience under various colleges. She ha published nearly twelve articles under various titles in Scopus indexe journals and referred journals both National and International leve journals.	Name	Dr.P. Poongodi	Degrees	M.Sc., M.Phil., Ph.D	
Applications from Karpagam University, Coimbatore, India. Her Researc area of interests is Fuzzy Algebra and its applications. She has more tha eleven years of working experience under various colleges. She ha published nearly twelve articles under various titles in Scopus indexe journals and referred journals both National and International leve journals. Keywords Fuzzy matrix, Interval Valued Fuzzy Matrix, Generalized Inverse Orderings. RESEARCH PROJECTS / FOCUS AREAS Title and escription of research projects and Ph.D Research / focus areas (Minimum 100 Words about each projects) I. Fuzzy set theory as a means of representing mathematically an imprecise (or) vague system of information in the real world an for the purpose of developing expert systems and soft computing. This theory plays an important role in pattern recognition. It serve as an interface between linguistic variables and quantitativ characterization. So under these circumstances, my research is t discuss the various types of orderings between fuzzy matrices. 2. Regular fuzzy matrices are a generalization of invertible matrices	Ũ	Google drive link can be shared—yet to create			
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mathematics, since the regularity condition is a linear condition that solves linear equations and takes the place of canonical decomposition. Regular fuzzy matrices are widely applied is estimation, inverse problem and fuzzy optimization problem. Focus Area: Generalized inverses of Interval Valued Fuzzy Matrices are well as Intuitionistic Fuzzy Matrices. PUBLICATIONS	of research projects and Ph.D Research / focus areas (Minimum 100 Words about each projects)	 KGCAS. Ph.D Research: Fuzzy set theory as a mean imprecise (or) vague system for the purpose of developin. This theory plays an importa as an interface between a characterization. So under the discuss the various types of or Regular fuzzy matrices are a Regular matrices play an mathematics, since the regula solves linear equations a decomposition. Regular fuz estimation, inverse problem a 	as of representing a of information in ag expert systems ant role in pattern a linguistic variable hese circumstance orderings between a generalization of important role in arity condition is a and takes the j zzy matrices are and fuzzy optimiza of Interval Valueo	mathematically any n the real world and and soft computing. recognition. It serves es and quantitative es, my research is to fuzzy matrices. f invertible matrices. many branches of linear condition that place of canonical widely applied in ation problem.	

1. <u>https://drive.google.com/file/d/1Yw8nKx13w6QgN0pI62u9PvAKE4wq0THf/view?us</u> <u>p=sharing</u>

In this research article, a special type of ordering for k - regular Interval Valued Fuzzy Matrix (IVFM) is introduced as a generalization of the minus partial ordering for regular fuzzy matrices. A set of equivalent conditions for a pair of k – regular IVFM to be under this ordering are obtained.

2. <u>https://drive.google.com/file/d/1gISmqSsWKSEHmp5dxkYe6dp4SJ_j59vj/view?usp=</u> <u>sharing</u>

In this research article, T-ordering on interval valued fuzzy matrices (IVFM) as a generalization of the T-ordering on fuzzy matrices are investigated. Some equivalent conditions for this ordering using generalized inverse are derived.

3. <u>https://drive.google.com/file/d/1im7UPb4r1aOWN93RkTu2h1Mhb1Iv1bGi/view?usp</u> =sharing

In this paper, the concept of k- symmetric circulant and s-symmetric circulant Interval Valued Fuzzy Matrices(IVFM) as a generalization of symmetric circulant fuzzy Matrices are introduced. The basic concepts, theorems and properties of ksymmetric circulant Interval Valued Fuzzy Matrix and ssymmetric circulant Interval Valued Fuzzy Matrix are discussed with examples.

Google Scholar ID	https://scholar.google.com/citations?user=7W8g7cIAAAAJ&hl=en	
Research Gate ID	https://www.researchgate.net/profile/Poongodi-Palanisamy-3	
Orchid ID	https://orcid.org/0000-0002-5860-3299	

FACULTY MEMBER CONTACT SECTION

Email	poongodi.p@kgcas .com
Office Address	Dept. of Mathematics, KGCAS, Coimbatore.
Phone No &	9994107922
E-Mail ID.	kpoongodi11@gmail.com