VELLALAR COLLEGE FOR WOMEN (AUTONOMOUS)

College with Potential for Excellence (Re-accredited with 'A' Grade by NAAC)

Thindal, Erode – 638 012.

PUBLICATIONS

DEPARTMENT OF MATHEMATICS

2014-2019

S.No.	Name of Author(s)	Title of the Paper	Name of the Journal	Year, Volume	Page No.	Impact Factor
1.	Dr.R. Parvathi, Muhammad Akram and S.Thilagavathi	Intuitionistic Fuzzy Shortest Hyperpath in a Network	Information Processing Letters	2013, 113 (17)	599 – 603	0.793
2.	Dr.R. Parvathi and S. Thilagavathi	Intuitionistic fuzzy directed hypergraphs	Advances in Fuzzy Sets and Systems	2013, 14 (1)	39 - 52	1.009
3.	Dr.R. Parvathi, S. Thilagavathi and K.T.Atanassov	Isomorphism on intuitionistic fuzzy directed hypergraphs	International Journal of Scientific and Research Publications	2013, 3 (3)	5556 – 5563	3.27

4.	Dr.P.Hemalatha	S~ k- Factorization of Symmetric digraph of Wreath Product of Graphs	Discrete Mathematics Algorithms and Applications	2014, 6 (4)	1450048	-
5.	Dr.R.Parvathi	Multi-parameter temporal intuitionistic fuzzy sets	Notes on Intuitionistic Fuzzy Sets	2016, 22 (1)	35 - 47	-
6.	Dr.R.Parvathi	Intuitionistic fuzzification functions	Global Journal of Pure and Applied Mathematics	2016, 12 (2)	1211 - 1227	-
7.	Dr.R.Parvathi	Defuzzification of intuitionistic fuzzy sets	Notes on Intuitionistic Fuzzy Sets	2016, 22 (5)	19 - 26	-
8.	Dr.R. Parvathi and	Intuitionistic Fuzzy Tree Center-Based Clustering Algorithm	International Journal of Soft Computing and Engineering	2016, 6 (1)	50 - 65	5.23
9.	Dr. R. Parvathi	Chromatic Values of Intuitionistic Fuzzy Directed Hypergraph Colorings	International Journal of Soft Computing and Engineering	2016, 6 (1)	32 - 37	5.23
10.	Dr.R. Parvathi	Coloring of Intuitionistic Fuzzy Directed Hypergraphs	International Journal of Computer Application	2016, 6 (3)	159 - 166	0.45
11.	Dr.R.Parvathi	Intuitionistic Fuzzy Filters for Noise Removal in Images	Handbook of Research on Generalized and Hybrid Set Structures and Applications for Soft Computing	2016, 53	54 - 64	-
12.	Dr.P.Shakila Banu	Square Perfect Fuzzy Matching	International Journal of Fuzzy Mathematical Archieve	2016, 11 (1)	45 – 52	-
13.	Dr.P.Hemalatha	Odd factor decomposition of E-super magic graphs	Odd factor decomposition of E-super magic graphs	2016, 3(2)	47- 52	-

14.	Dr.R.Parvathi	Generalized Net Models of Academic Promotion and Doctoral Candidature	Recent Contributions in Intelligent Systems (Book series: Studies in Computational Intelligence)	2017	263-277	-
15.	Dr.R.Parvathi, Dr.N.Maragatham	An application of intuitionistic fuzzy directed hypergraphs in molecular structure representation	Notes on Intuitionistic Fuzzy Sets	23 (2), 2017	69 -78	-
16.	Dr.R.Parvathi,	Noise removal from images using intuitionistic fuzzy logic controller	Annals of Fuzzy Mathematics and Informatics (International Journal)	13 (3), 2017	421 – 435	-
17.	Dr.R.Parvathi	On some measures of temporal intuitionistic fuzzy sets	Advances in Fuzzy Sets and Systems (International Journal)	22(2) 2017	71 – 91	1.009
18.	S.P.Geetha,	MHD Bioconvection of Nanofluid in a channel with Joule Heating and passive control	International Journal of Pure and Applied Mathematics	1117(12), 2017	213 – 221	-
19.	Dr.P.Hemalatha	Evenly partite star factorization of symmetric digraph of wreath product of graphs	AKCE International Journal of Graphs and Combinatorics	14(1), 2017	54 – 62	0.32
20.	Dr.P.Hemalatha	Evenly partite Directed Bigraph factorization of Wreath Product of Graphs	Lecture Notes in Computer Science, Springer	10398, 2017	83 -89	-

21.	S.P Geetha	A Notes Intuitionistic Fuzzy differential equations	International Journal of Advanced research in Basic Engineering Sciences and Technology	2018	73-81	-
22.	S.Padmavathi	Antiperiodic boundary value problem for fractional differential equations	International Journal of Advanced research in Basic Engineering Sciences and Technology	2018	58-72	-
23.	S.P.Geetha,	Cross difussion effects on combined bioconvection of nanofluid in a flat channel along with microorganism	IOP Conference series: Materials Science and Engineering	390,012084-1-6 2018	-	1.963
24.	Dr.R.Parvathi,	Intercriteria Analysis of rankings of Indian Universities	Notes on Intuitionistic Fuzzy Sets	24 (1) 2018	99 -109	-
25.	Dr.P.Hemalatha	Gregarious star factorization of the tensor product of graphs	Discrete Mathematics Algorithms and Applications	10 (4), 1850055 2018	-	-
26.	Dr.P. Shakila Banu	Properties of Quadratic Residue Codes over Z27	2nd International Conference on Collaborative Research in Mathematical Sciences	2018	-	-
27.	Dr.P. Shakila Banu	Properties of Quadratic Residue Codes over Z27	Proceedings of the 2nd International Conference on Collaborative Research in Mathematical Science	2018	386-396	-

2019-2020

S.No.	Name of Author(s)	Title of the Paper	Name of the Journal	Year, Volume	PageNo.
1.	Dr.R. Parvathi	Fuzzification functions for Temporal Intuitionistic Fuzzy Sets	Notes on Intuitionistic Fuzzy Sets	2019,25(3)	1 - 12

2020-2021

S.No.	Name of Author(s)	Title of the Paper	Name of the Journal	Year, Volume	PageNo.
1.	Dr.R. Parvathi	Intuitionistic Fuzzy Index Matrix Representation of Color Images	Notes on IntuitionisticFuzzy Sets	2020, 26(4)	64-70
2.	Dr.P.Hemalatha	Balanced Rank Distribution Labeling of Ladder Graphs, Complete Graphs and Complete Bipartite Graphs	TWMS Journal of Applied and Engineering Mathematics	2021, 11	178-187

2021-2022

S.No.	Name of Author(s)	Title of the Paper	Name of the Journal	Year, Volume	PageNo.
1.	Dr.P.Hemalatha	On Star Coloring of Kronecker Product of Graphs	Global Journal of Pure and Applied Mathematics (Mathematical Reviews)	2021, 18(1)	273-282

2022-2023

S.No.	Name of Author(s)	Title of the Paper	Name of the Journal	Year, Volume	PageNo.
1.	Dr.R.Parvathi &	A novel approach of complex intuitionistic fuzzy linear systems in an electrical circuit	Lecture Notes in Networks and Systems Series, 308, Springer, Cham	2022, 38	109-118
2.		Intuitionistic fuzzy moving aggregation operators in decision making	Journal of Fundamentals & Comparative Research	July-Dec 2022, VIII(2)	-
3.		A video processing algorithm using temporal intuitionistic fuzzy sets	Journal of Intelligent & Fuzzy Systems	2022, 43(6)	8057-8072
4.	Dr.S.P.Geetha	A mathematical model using temporal intuitionistic fuzzy sets	Notes on Intuitionistic Fuzzy Sets	December 2022, 28(4)	475 – 490
5.	Dr.P.Hemalatha	On Star Coloring of Kronecker Product of Graphs	Global Journal of Pure and Applied Mathematics	2022, 18(1)	273-282
6.	P.Shakila Banu	Five errors correcting (73,61,12) quadratic residue code over ternary field	Journal of Algebra and Applied Mathematics	2023, 21(1)	17-34
7.		Cartesian product of Quadratic Residue Graphs	Mathematics and Statistics	2023,11(2)	434-439