

# SRM Valliammai Engineering College

SRM Nagar, Kattankulathur

Department of Mathematics

## NO.OF RESEARCH PUBLICATIONS

### Academic Year 2010-11:

S.No	Author	Titleofthepaper	VolumeNo. PageNo.	Nameofthe Journal	Month &Ye ar
1.	Mrs. S.Chitra, Dr.R.Sattanathan	Global Perfect Domination sets in Graph	ISSN:09736794 ,PP:125–128 ;	International Journal of Computatioal Intelligence Research and Applications	Dec 2010
2	V.Vijayalakshmi, Dr..Sattanathan	Circulant Trapezoidal Fuzzy Number Matrices	Volume3, Number2 ISSN:0974-3367 P P49-56	International Journal of Algorithms, Computing & Mathematics	May 2010
3.	V.Vijayalakshmi ,Dr..Sattanathan	ST decomposition method for solving FFLS	volume22 Number3(M) ISSN:0970- 9150 pp747- 750 Impact factor.045.	International Journal of Ultra Scientists of Physical sciences, Bhopal India	Jan 2011
4.	V.Vijayalakshmi ,Dr.RSattanathan	ST decomposition method for solving FFLS using Gauss Jordon for trapezoidal fuzzy matrices	Vol.6, no.45, ISSN1312- 75942245- 2254	International Mathematical Forum, Hikari Ltd, Bulgaria	May 2011

### Academic Year 2011-12:

S.No	Author	Title of the Paper	Volume No. Page No.	Name of the Journal	Month & Year
1	S.Chitra ,DrR.Sattanathan	Global Vertex Edge Domination sets in Graph	ISSN1312-7594 Vol 7, 5-8	International Mathematical Forum, Hikari Ltd	Feb 2012

2	T.Isaiyarasi, Dr.K.Sankarasubramanian-	A new multi-party key agreement protocol using search problems in discrete Heisenberg	ISSN:0976-5166 Vol.3No.1p p154-161.	Indian Journal of Computer Science and Engineering	Mar 2012
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### Academic Year 2012-13:

S.No	Author	Title of the Paper	Volume No. Page No.	Name of the Journal	Month & Year
1	S.Chitra, Dr.R.Sattanathan	Global Vertex Edge Domination chain and its characterization	Vol 15 ,No:4 PP.259–268	National Journal of Discrete Mathematics and Cryptography	Aug 2012
2	S.Chitra, Dr.A.Subramanian	A Mathematical Model for The Fusion of Graph Theory and Web Service Composition	Vol 4,No:2 P.182-187,	International Journal of Computer application	Oct 2012
3	S.Chitra, Dr.A.Subramanian	Maximal Vertex Edge Domination sets in Graph	Vol 83,No:1, PP.91–94	European Journal of Scientific Research	Dec 2012
4	T.Isaiyarasi Dr.K.Sankarasubramanian	A new key exchange protocol using two layers of security	Vol.15No.2 &3,pp.125–133	Journal of Discrete Mathematical Sciences and Cryptography, Taru Publications	Dec 2012
5	T.Isaiyarasi, Dr.K.Sankarasubramanian	Tripartite key agreement protocolus in triple decomposition search problem	DOI:10.5121/ijcis .2012.2304 Pp 49-55.	International Journal on Cryptography and Information Security	2012

### Academic Year 2013-14:

S.No	Author	Title of the Paper	Volume No. Page No.	Name of the Journal	Month & Year
1.	Ms.T.Isaiyarasi	Multi party key Agreement Proto coloring Triple decomposition Search Problem in Discrete Heisenberg Group	Vol.4,P PP.09-15	International Journal of Computer Engineering and Technology	Dec 2013
2.	Dr.A.Elumalai	Cycle with Parallel Chords of Pendant Edge Extension is Graceful	Vol.5 Pp.53-58	Journal of Communications in Mathematics and Applications	June 2014

3.	Dr.A.Elumalai	One Vertex Union of Cycles Bipartite Graph and one edge Union of Cycles is Domination	Vol.5 Pp.926-927	International Conference on Mathematical Sciences	2014
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**Academic Year 2014-15:**

S.No	Author	TitleofthePaper	VolumeNo. PageNo.	NameoftheJournal	Month & Year
Nil					

**Academic Year 2015-16:**

S.No	Author	TitleofthePaper	VolumeNo. .PageNo.	NameoftheJournal	Month & Year
1.	Ms.A.Karpagam	A New Tactic for Finding relevant Constraints in Linear Programming Problems	Vol.3P p.66-69	International Journal of Scientific and Engineering Research	Mar 2015
2.	Ms.A.Karpagam	Fuzzy Optimal Solution for Fully Fuzzy Linear Programming Problems using Hexagonal Fuzzy Numbers	Vol.10 Pp.117-123	International Journal of Fuzzy Mathematical Archive	Apr 2016
3.	Ms.A.Karpagam	A New Membership Function of Hexagonal Fuzzy Numbers	Vol.5Pp. 1129-1131	International Journal of Science and Research	May 2016

**Academic Year 2016-17:**

S.No	Author	Titleofthepaper	VolumeNo. PageNo.	Name of the Journal	Month & Year
1.	Mrs.G.Sasikala	Study on Intuitionistic Semi open Sets	Vol.12,Pp.No :79-84	IOSR Journal of Mathematics (IOSR-JM)	Dec 2016
2.	Mrs.A.Karpagam	A New Ranking Technique of Hexagonal Fuzzy Numbers	Vol.5, Pp.533-535	International Journal of Science and Research	June 2016
3.	Mrs.G.Sasikala	Study on Intuitionistic - Open Sets and - Closed Sets	Vol.8 Pp.26-30	International Journal of Mathematica ll Archive	Jan 2017

4.	Mrs.G.Sasikala	Physical Properties of Glass-Hemp-Banana Hybrid Fiber Reinforced Polymer Composites	Vol.10 ,Pp.1-	Indian Journal of Science and Technology	Feb 2017
5.	Dr.V.Vijayalakshmi	Solving FFLSE with circulant Hexagonal Fuzzy Number Matrices by LU Decomposition Method	Volume113, PP-317-325	International Journal of Pure and Applied Mathematics(Annexure2), Academic Publication,Kuwait	May 2017
6	Mrs.A.Karpagam	To Obtain Initial Basic Feasible Solution Physical Distribution Problems	Vol.13 Pp.4671-4676	Global Journal of Pure and Applied Mathematics	June 2017

### Academic Year 2017-18:

S.No	Author	Titleofthe Paper	VolumeNo. PageNo.	NameoftheJournal	Month & Year
1.	Mrs.G.Sasikala	On Intuitionistic Pre open Sets	Vol.116,Pp. 281-292	International Journal of Pure and Applied Mathematics (Annexure2),Academic Publication,Kuwait	Dec 2017
2.	Dr.V.Vijayalakshmi	Solving FFLSE for Octagonal FuzzyMatrices	Vol.119 ,Pp.267-275	International Journal of Pure and Applied Mathematics (Annexure2), Academic Publication, Kuwait	April 2018
3.	Mrs.A.Karpagam	New Ranking Function on Octagonal Fuzzy Number for Solving Fuzzy Transportation Problem	Vol.119, Pp.125-131	International Journal of Pure and Applied Mathematics (Annexure2), Academic Publication, Kuwait	April 2018

### Academic Year 2018-19

S.No	Author	Titleofthe Paper	VolumeNo. PageNo.	NameoftheJournal	Month & Year
1.	Dr.S.Chitra	Application of Perfect Domination in Logistics Services Using Web Service Composition	Vol.10,No:2	International Journal of Computer and Mathematical Sciences	Jan 2019
2.	Dr.S.Chitra Ms.N.Prabhavathy	Minimum Dominating Eccentricity energy of a Graph	Vol.19,No:021 PageNo:57-63		Feb 2019

				American International Journal of Research in Science, Technology, Engineering & Mathematics (UGC care)	
3	Mrs. A..Karpagam Dr. V.Vijayalakshmi	Membership and Non membership function of Penagonal fuzzy Numbers	ISSN : 23283 3491 Vol.19,No:021 PP 146-149	American International Journal of Research in Science, Technology, Engineering & Mathematics (UGC care)	Mar 2019
4.	Dr.V.Vijayalakshmi Mrs.A.Karpagam	Heptagonal Fuzzy Number by Singular Value Decomposition	Vol.1,No:26 PageNo:24-27	American International Journal of Research in Science,Technology, Engineering & Mathematics (UGC care)	Apr 2019

### Academic Year 2019-20

S.No	Author	Titleofthepaper	VolumeNo. PageNo.	NameoftheJournal	Month & Year
1.	Dr. V.Vijayalakshmi, Mrs. A..Karpagam	Pentagonal Fuzzy Number by Cholesky Decomposition and Singular Value Decomposition	ISSN 0976-5840 Volume 11, Number 1 Pp: 19-28	International Journal of Mathematics Research	June 2019
2.	Mr. L.Mohan	Fuzzified Substitutional Method for Solving Linear System of Equations	Vol.6, Issue 5, Pp:2950-2957.	Journal of Applied Science and Computations	July 2019
3	Mrs. A..Karpagam Dr. V.Vijayalakshmi	Comparison Results of Trapezoidal, Simpson's 1/3 rule, Simpson's 3/8 rule and Weddle's rule'	ISSN 0731 6755, Volume XII, Issue IX, Pp: 1884-1887	Journal of Composition Theory (UGC care)	September 2019

4.	Dr.S.Chitra Mrs. N. Prabhavathy	Vertex Edge and Equitable Vertex Edge Domination of Topologically Indexable Graphs	Vol. 6, No1	International Journal of Scientific Research & Engineering Trends (UGC care)	Jan-Feb 2020.
5	Mrs. A..Karpagam Dr. V.Vijayalakshmi	Fuzzy Cubic Spline Interpolation with Triangular Fuzzy Numbers	ISSN: 22773878 Vol. 8, No5	International Journal of Recent Technology and Engineering(Sc opus Indexed)	Jan 2020.
6	Dr.S.Chitra Mrs. N. Prabhavathy	A Study of Perfect Edge, Perfect Edge Covering and Perfect Edge Vertex Domination Sets in Graphs	Vol. 7, No 1	International Journal of Research and Analytical Reviews	Feb 2020.
7	Dr. V.Vijayalakshmi, Mrs. A..Karpagam	Fully Fuzzy Linear Systems in Python Programming	ISSN : 22498958 Vol 9, Issue 4 PP : 951-956	International Journal of Engineering and Advanced Technology (Scopus Indexed)	Apr 2020
8	Dr. T. Isaiyarasi	Authenticated Tripartite key Agreement Protocol using Digital Signature Algorithm'	Volume 46, Issue 1, PP 1-19	<i>JP Journal of Algebra, Number Theory and Applications,</i> 19, Ap	Apr 2020

**Academic Year 2020-21**

S.No	Author	Title of the paper	VolumeNo. PageNo.	Name of the Journal	Month & Year
1.	Mrs.B.Vasuki	Double duplication of path and cycle related graphs	Volume 33 : Issue 02, PP 2934- 2943	Gedrag & Organisatie Review	July 2020.
2.	Mrs. A.Karpagam Dr. V.Vijayalakshmi	New Tactic of Cubic Spline Interpolation with Trapezoidal Fuzzy Numbers	Volume 33 : Issue 03 , PP 112-118	Gedrag&Organisatie Review	July 2020
3	Dr.S.Chitra	Reliability analysis and Dynamic Maintenance model based on Fuzzy degradation approach	<a href="https://doi.org/10.1.1007/s00500-020-05388-4">https://doi.org/10.1.1007/s00500-020-05388-4</a>	Soft Computing-Springer	Oct 2020
3	Dr. V. Vijayalakshmi, Ms. A. Karpagam	A Tactic approach in game theory'	Volume XIII, Issue XI, pp- 287-293	A Journal of Composition Theory	Nov 2020
4	Dr.S.Chitra	SALDEFT: Self-Adaptive Learning Differential Evolution Based Optimal Physical Machine Selection for Fault	<a href="https://doi.org/10.1007/s11277-021-08089-9">https://doi.org/10.1007/s11277-021-08089-9</a> Article No : 8089 Pages : 27	Wireless Personal Communications	Jan 2021
5	Ms. V. Nagarani Ms. A.Karpagam Ms. B, Vasuki Mr. N. Sundarakannan	Real life Applications is Baye's Theorem	Volume XIV, Issue II, 165-170	A Journal of Composition Theory	Feb 2021
6	Dr. S. Chitra Dr. T. Isaiyarasi	The study of Energy Graphs with given super domination number .	Volume XIV, Issue III, 7-13	A Journal of Composition Theory	Feb 2021
7	Dr. T. Isaiyarasi Dr. S. Chitra	Authenticated Key Agreement Protocol for HWSN network	Volume XIV, Issue II, 153-164	A Journal of Composition Theory	Feb 2021
8	Dr. V.Vijayalakshmi	SOT based dynamic garbage management system	Volume 20, Issue 5, 2207-2214, ,	Elementary Education Online	Mar 2021

**Academic Year 2021-22**

S.No	Author	Title of the paper	VolumeNo.Page No.	Name of the Journal	Month &Year
1.	Dr. V.Vijayalakshmi/AP (Sl.G)	'Artificial Intelligence – Architecture to Applications'	ISBN:978-93-91077-05-1 ,	Emerging Global Business Practices and Trends in Post Pandemic Economy	April 2021.
2.	Dr. V.Vijayalakshmi/AP (Sl. G)	Game Theory and its Applications in Post Pandemic Competitive Situation	ISBN:978-93-91077-05-1 ,	Emerging Global Business Practices and Trends in Post Pandemic Economy	April 2021.
3	Dr. V. Vijayalakshmi/AP (Sl. G), Dr. S. Chitra, HOD/AP (Sl. G)	Real Time Application Using Qr Decomposition in Fuzzy Logic	Volume 10 Issue 1, pp 574-579, (Web of science, ESCI indexed Journal)	Journal Drugs and Cell Therapies in Hematology	July 2021
4	Dr. V. Vijayalakshmi/AP (Sl. G), Dr. S. Chitra, HOD/AP (Sl. G)	Impact of AI and Machine Learning in E-commerce Business Management	ISBN 978-81-948555-9-0, Volume 1, Issue 1	Impact of Machine Learning and Artificial Intelligence on	31 <sup>st</sup> July 2021
5	Dr.V.Vijayalakshmi/AP(Sl.G)	Impacts of Covid 19 in Education Society using Fuzzy Logic	ISBN 978-81-951230-3-2	The Covid Divide Behavioral, Social and Economical Impacts	29 <sup>th</sup> July 2021
6	Dr. S.Chitra, HOD /AP (Sl.G), Dr.V.Vijayalakshmi /AP(Sl.G), Dr.T.Isaiyarasi /AP (Sl.G) and Mr. N. Sundarakannan	Application of Sage Math, Python coding in Vertex – Edge and Efficient Vertex - Edge Dominating Sets in Graphs	Volume 32, Issue 3,PP 21506-21515 (Web of Science, Scopus, ESCI Indexed Journal	Turkish Journal of Physiotherapy and Rehabilitation	Oct 2021
7	Ms. V. Nagarani /AP (O.G), Dr. T. Isaiyarasi, /AP(Sl.G), Mr. N. Sundarakannan /AP O.G) and Dr. S. Chitra HOD /AP (Sl.G),	Multiparty Key Agreement Protocol Using Factorization Search Problem in Five-Dimensional Discrete Heisenberg Group	Issue: 8, PP 8384 – 8396 , Web of Science, Scopus, ESCI Indexed Journal	Design Engineering	Oct 2021



