Faculty Profile

Name	: Dr. P. Rajarajeswari
Designation	: Associate Professor
Address	: Associate Professor
	Chikkanna Government Arts College,
	Tiruppur, Tamilnadu, India 641602.
Contact Number	**:** 9942434375
Email ID	: p.rajarajeswari29@gmail.com
Date of Joining in Collegiate Education	: 9.07.2009
Date of Joining in the Present College	: 16.07.2010
Academic Profile	:

Degree	Institute/College	University	Period
B.Sc. Mathematics	N.G.M College, Pollachi	Bharathiar University	1993
M.Sc. Mathematics	N.G.M College, Pollachi	Bharathiar University	1998
M.Phil.,Mathematics	Madurai Kamaraj University	Madurai Kamaraj University	2000
Ph.D. Mathematics	N.G.M College, Pollachi	Bharathiar University	2008
MCA	Bharathidasan University, Trichy	Bharathidasan University, Trichy	2003
PGDOR	Pondichery University, Pondichery	Pondichery University, Pondichery	2007

Teaching Experience :

i)	**Total**	**:**	**Years**	**Month**
ii)	**UG**	**:**	24 Years	2 Month
iii)	**PG**	**:**	21 Years	2 Month

Name of the college	Position held	Period
Chikkanna Govt. Arts college, Tirupur.	Assistant professor of Mathematics	16.07.2010 to till date
N.K.R Govt. Arts College for Women, Namakkal.	Assistant professor of Mathematics	9.07.2009 to 15.07.2010
Kumaraguru College of Technology.	Lecturer in Mathematics	01.08.2005 to 7.07.2009
SNMV College of Arts and Science, Coimbatore.	Lecturer in Mathematics	19.07.1999 to 29.07.2005
STC College of Arts and Science, Pollachi.	Lecturer in Mathematics	12.10.1998 to 17.7.1999

Honors and Research Awards : -

   Field of Interest :

     i) **Teaching** : Pure and Applied Mathematics
     ii) **Research** : Fuzzy sets, Topology, Operations Research
     iii) **Proficiency in instrumentation** : -

Research Guidance
Guide Approval Number : 15996/A2/2010Dated 16/12/2010

S. No	M.Phil / Ph.D	Name of the Student	Thesis Title	Completed / ongoing
1		P. Mounajothi	A Study on support Intuitionistic Fuzzy Multi set	Completed
2		M. Suganya	A Study on support Intuitionistic Fuzzy Multi set	Completed
3		P. Poomalai	A Study on support Instuitionistic Fuzzy Multi sets distance measures	Completed
4	M.Phil	G. M. Kohila gowri	A Study on $\square$-cuts of Trapezoidal Fuzzy number and the application of Trapezoidal Intuitionistic Fuzzy numbers in Bi-Matrix games	Completed
5		D. Bharathi	A study on some new Operators on Intuitionistic Fuzzy multi sets	Completed
6		V. Hinduja	A Study on some new Operators on inter valued Intuitionistic Fuzzy Multi sets	Completed
7		R. Krishnamoorthy	Studies on weakly generalized continuous mappings in intuitionistic fuzzy topological spaces.	Completed

8	Ph.D	L. Senthilkumar	Contribution to the Study of fuzzy optimal performances of game theory and its applications	Completed
9		P. Dhanalakshmi	A study on matrix theory and similarity measures using fuzzy soft sets	Completed
10		A. Sahaya Sudha	A study on multi criteria decision making incorporating hexagonal Fuzzy numbers.	Completed
11		N. Uma	A study on Intuitionistic fuzzy multi set's relations, distance and similarity measures	Completed
12		G. Bagyalakshmi	Studies on λ-continuous mappings inintuitionistic fuzzy topological spaces	Completed
13		R. Ramesh	A study on performance measures of cost functions and waiting time of queues under fuzzy environment.	Completed
14		R. Senthil Kumar	Contribution to the study of fuzzy optimal performances of game theory and its applications	Completed
15		V. Rajadurai	A study on mathematical algorithms for optimal solutions of fuzzy transportation problems	Completed
16		M. Sangeetha,	A study on tansportation problem using various fuzzy numbers	Completed
17		V. Parimala	Study on numerical solutions of various fuzzy differential Equations	Completed
18		G. Menaka	A Study on Intuitionistic Fuzzy Transportation Problems using Octagonal Intuitionistic Fuzzy Numbers	Completed

	Ph.D			
19		J. Vanitha	A Study on Multi Interval valued and Multi Intuitionistic Fuzzy Soft Matrices	Completed
20		D. Maheswari	A Study on Fuzzy Transportation and Fuzzy Assignment Problem using Interval valued Numbers	Completed
21		T. Mathisujitha	--------------	Ongoing
22		M. Shyamala	--------------	Ongoing
23		K.Vanithamani	--------------	Ongoing
24		D. Nandhini	--------------	Ongoing
25		T. Thirunamakkani	--------------	Ongoing
26		R. Reshma	--------------	Ongoing

Faculty Development Programs Attended :

Course	University/ Institute	Subject	Period
Orientation Course	Madras University, Chennai	Mathematics	July 9th –August 5th , 2009
Refresher Course in Research Methodology for social sciences	Bharathiar University	Multi disciplinary	Feb 01 to Feb 21, 2012
Refresher Course in Mathematics and Statistics	Bharathiar University	Mathematics	July 5 to July 25, 2017.
Refresher Course in Gender studies	Madurai Kamaraj University	Multi disciplinary	Dec 18, 2018 to Jan 7, 2019
Refresher Course in Environmental studies	Bharathiar University	Multi disciplinary	Feb 06 - 19, 2020

Funded Projects : -
Membership in Professional Bodies : -

S. No	Name of the Professional Body	Membership Detail with Number
1.	ISTE Life member	
2.	Indian Science Congress Life Member	

Research Publications :

i)	**Research Papers**	: Attach paper list - with doi and http link of the Paper (Annexure – I)
ii)	**Book/Book Chapters**	: Details with ISBN number
iii)	**Patent**	**: Nil**

National and International Conferences   : Attach separate list (Annexure – II)
i)	**Participated**	**: 58**
ii)	**Paper Presented**	**: 35**
iii)	**Poster Presented**	**: -**

Conference/ Seminars Organized   **: 2**

S. No	Date	Conference/ Seminars/ Workshop	Organizer
1.	19.07.2023	One Day State Level Workshop on Latex	Convenor
2.	23.08.2023 & 24.08.2023	DST – SERB, New Delhi Sponsored International Conference on Blooming Fuzzifier Logic (ICBFL - 2023)	Convenor

Workshop attended   :Nil

Resource Person / Invited Lectures   **: 21**
Faculty Development Programs Attended   :

Course	University/Institute	Subject	Period
Orientation Course	Madras University, Chennai	Mathematics	July 9th –August 5th ,2009
Refresher Course in Research Methodology for social sciences	Bharathiar university	Multi disciplinary	Feb 01 – Feb 21 , 2012
Refresher Course in Mathematics and Statistics	Bharathiar university	Mathematics	July 5-July 25, 2017.
Refresher Course in Gender studies	Madurai Kamaraj University	Multi disciplinary	Dec 18,2018 – Jan 7,2019

Academic Activities
i)	**Subject Handled**	**:** Mathematics Subjects
ii)	**Class Advisor**	**:** UG & PG
iii)	**Special Coaching**	**: Nil**
iv)	**Student Community Beneficial Activities**	**: Nil**
v)	**Co-curricular and extra curricular activities**	**: Fine Arts**

Professional Activities
i)	**Reviewer**	**:** For Journals
ii)	**Board of Studies/UR**	**:** Member - Board of studies in Mathematics (UG), Bharathiar university.
iii)	**Examiners/ Scrutiny**	**:** Bharathiar university

Research Publications 155

Annexure -I

Research Papers Publications

S.No	Title	Year
1.	P.Rajarajeswari and P. Sundaram, Strongly αg-continuous and strongly αg-irresolute maps, Varahmihir Journal of Mathematical Sciences, 6(2006), 363-368.	2006
	P.Rajarajeswari and P. Sundaram, Strongly αg- Closed Sets, Antarctica J. Math, 3(2006), 113-125.	2006
3.	P.Rajarajeswari and P. Sundaram, Sαg-Closed maps, Antarctica J. Math, 7(2010), 15-21.	2010
4.	P.Rajarajeswari and R. Krishna Moorthy, On intuitionistic fuzzy weakly generalized closed set and its applications, International journal of Computer Applications, 27(2011),9-13.	2011
5.	P. Rajarajeswari and L. Senthil Kumar, Generalized pre-closed sets in intuitionistic fuzzy topological spaces, International journal of Fuzzy Mathematics and Systems, 1(2011), 253-262.	2011
6.	P.Rajarajeswari and G. Bagyalakshmi, λ-closed sets in intuitionistic fuzzy topological spaces, International Journal of Computer Applications, 34(2011), 25-27.	2011
7.	P.Rajarajeswari and A. Sahaya Sudha, An application of multi objective fuzzy linear programming for sales forecasting, Advances in Fuzzy Mathematics, 6(2011), 313-322.	2011
8.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy weakly generalized irresolute mappings, Ultra Scientist of Physical Sciences, 24(2012), 204 – 212.	2012
9.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy weakly generalized continuous mappings, Far East Journal of Mathematical Sciences, 66(2012), 153 – 170.	2012
10.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy weakly generalized closed mappings, Journal of Advanced Studies in Topology, 3(2012), 20 – 27.	2012
11.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy completely weakly generalized continuous mappings, Notes on Intuitionistic Fuzzy Sets, 18(2012), 25 – 36.	2012
12.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy quasi weakly generalized continuous mappings, Scientia Magna, 3(2012), 16-24.	2012
13.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy almost weakly generalized closed mappings, International Journal of Fuzzy Mathematics and Systems, 2(2012),467-477.	2012
14.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy perfectly weakly generalized continuous mappings, Notes on Intuitionistic Fuzzy Sets, 18(2012), 64-76.	2012
15.	P.Rajarajeswari and R. Krishna Moorthy, Weakly generalized compactness in intuitionistic fuzzy topological spaces, Scientia Magna, 4(2012), 108-117.	2012
16.	P.Rajarajeswari and L. Senthil Kumar, Regular weakly generalized closed sets in intuitionistic fuzzy topological spaces, International journal Computer Applications, 43(2012), 13-17.	2012

17.	P.Rajarajeswari and L. Senthil Kumar, intuitionistic fuzzy completely regular weakly generalized continuous mappings, international journal of Applied Information Systems,3(2012), 34-38.	2012
18.	P.Rajarajeswari and L. Senthil Kumar, Regular weakly generalized continuous mappings in intuitionistic fuzzy topological spaces, International journal of Mathematical Archive,3(2012), 1957-1962.	2012
19.	P.Rajarajeswari and N. Uma, Advanced fuzzy intuitionistic logic techniques in image processing, Indian Journal of Computational and Applied Mathematics 1(2012), 9-19.	2012
20.	P.Rajarajeswari and G. Bagyalakshmi, λ-continuous mappings in intuitionistic fuzzy topological spaces, International Journal of Applied Information Systems, 1(2012), 6-8.	2012
21.	P.Rajarajeswari and A. Sahaya Sudha, MCDM for road safety management using fuzzy analytical hierarchy process, International journal of Future Computer and Communication, 1(2012), 249-251.	2012
22.	P.Rajarajeswari and P. Dhanalakshmi, Soft set theory in medical diagnosis using trapezoidal fuzzy number, International Journal of Computer Applications, 57(2012), 8-11.	2012
23.	P.Rajarajeswari and P. Dhanalakshmi, An application of similarity measure of fuzzy soft set based on distance, IOSR Journal of Mathematics, 4(2012), 27-30.	2012
24.	P.Rajarajeswari and R.Krishna Moorthy, Intuitionistic fuzzy contra weakly generalized continuous mappings, Annals of Fuzzy Mathematics and Informatics, 5(2013), 361-369.	2013
25.	P.Rajarajeswari and R.Krishna Moorthy, Weakly generalized homeomorphism in intuitionistic fuzzy topological space, Annals of Fuzzy Mathematics and Informatics, 5(2013), 597-605.	2013
26.	P.Rajarajeswari and R.Krishna Moorthy, Intuitionistic fuzzy quasi weakly generalized closed mappings, Advances in Fuzzy Sets and Systems, 14(2013), 21-38.	2013
27.	P.Rajarajeswari and R.Krishna Moorthy, On intuitionistic fuzzy regular generalized b-closed sets, International Journal of Mathematical Archive, 4(2013), 237-243.	2013
28.	P.Rajarajeswari and R.Krishna Moorthy, On intuitionistic fuzzy generalized b closed sets, International Journal of Computer Applications, 63(2013), 41-46.	2013
29.	P.Rajarajeswari and R.Krishna Moorthy, Intuitionistic fuzzy totally weakly generalized continuous mappings, Annals of Fuzzy Mathematics and Informatics, 7(2013), 67-76.	2013
30.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy almost weakly generalized continuous mappings and intuitionistic fuzzy almost contra weakly generalized continuous mappings, Acta Ciencia Indica, XXXIX M.NO 2, (2013), 111-124.	2013
31.	P.Rajarajeswari and L.Senthil Kumar, Intuitionistic fuzzy regular weakly generalized irresolute mappings, Far East Journal of Mathematical Sciences, 72(2013), 117-130.	2013
32.	P.Rajarajeswari and L. Senthil Kumar, Almost Continuous Mappings in Intuitionistic Fuzzy Topological Spaces Journal of Ultra Scientist of Physical Sciences 25(2013) 339-349.	2013
33.	P.Rajarajeswari and L. Senthil Kumar, Intuitionistic Fuzzy Contra Regular Weakly Generalized Continuous Mappings, Journal of Global Research in Mathematical Archives, 1(2013), 97-103.	2013
34.	P.Rajarajeswari and L. Senthil Kumar, Intuitionistic Fuzzy Regular Weakly Generalized Closed Mappings, Mathematical Sciences, 2(2013), 351-356.	2013
35.	P.Rajarajeswari and N. Uma, On distance and similarity measures of intuitionistic fuzzy multi set, IOSR Journal of Mathematics, 5(2013), 19-23.	2013

36.	P.Rajarajeswari and N. Uma, Hausdroff similarity measures for intuitionistic fuzzy multi sets and its application in medical diagnosis, International Journal of Mathematical Archive, 4(2013), 106-111.	2013
37.	P.Rajarajeswari and N. Uma, A study of normalized geometric and normalized hamming distance measures in intuitionistic fuzzy multi sets, International journal of science and research, 2(2013), 76-80.	2013
38.	P.Rajarajeswari and N. Uma, Intuitionistic fuzzy multi similarity measure based on cotangent function, International journal of engineering research & technology, 2(2013),1323-1329.	2013
39.	P.Rajarajeswari and N. Uma, Intuitionistic fuzzy multi relations, international journal of mathematical archive, 4(2013), 244-249.	2013
40.	P.Rajarajeswari and A. Sahaya Sudha, AHP combined with fuzzy topsis for evaluating a best alternative, International Journal of Computer Applications, proceedings on ICICIC, 2013, 11294-13537.	2013
41.	P.Rajarajeswari and A. Sahaya Sudha, A New operation on Hexagonal Fuzzy number, International Journal of Fuzzy Logic Systems, 3(2013), 15-26.	2013
42.	P.Rajarajeswari and A. Sahaya Sudha, Ranking of Hexagonal Fuzzy Numbers for Solving Multi Objective Fuzzy Linear Programming Problem, International Journal of Computer Applications, 84(2013), 4-18.	2013
43.	P.Rajarajeswari and P. Dhanalakshmi, An application of similarity measure of fuzzy soft set in medical diagnosis, Global Journal of Theoretical and Applied Mathematic Sciences, 3(2013), 1-6.	
44.	P.Rajarajeswari and P. Dhanalakshmi, Intuitionistic Fuzzy soft matrix theory and its application in Decision making, International Journal of Engineering research & Technology, 2 (2013), 1100-1111.	2013
45.	P.Rajarajeswari and A. Sahaya Sudha, Ranking of Hexagonal Fuzzy Numbers for Solving Multi Objective Fuzzy Linear Programming Problem, International Journal of Computer Applications, 84(2013), 4-18.	2013
46.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy contra weakly generalized irresolute mappings, Notes on intuitionistic fuzzy sets, 2013.	2013
47.	P.Rajarajeswari and R. Krishna Moorthy, Intuitionistic fuzzy contra weakly generalized closed mappings, Acta Universitatis Apulensis, 2014.	2014
48.	P.Rajarajeswari and N. Uma, Off-line signature verification and forgery detection using pixel based fuzzy logic technique, Journal of Innovative Research and Solutions, 2013, 77-81.	2013
49.	P.Rajarajeswari and N. Uma, Normalized hamming similarity measure for intuitionistic fuzzy multi sets and its application in medical diagnosis, International Journal of Mathematics Trends & Technology, 2014, 5(5), 219-225.	2014
50.	P. Rajarajeswari and P. Dhanalakshmi, Intuitionistic Fuzzy soft matrix theory and its application in Medical diagnosis, Annals of fuzzy mathematics and informatics, 2014, 7765-772.	2014
51.	P. Rajarajeswari and P. Dhanalakshmi, Interval valued Intuitionistic Fuzzy soft matrix theory, International Journal of Mathematical Archive, 2014, 5, 152-161.	2014
52.	P.Rajarajeswari and N. Uma, Intuitionistic fuzzy multi relation and its application in medical diagnosis, Notes on Intuitionistic Fuzzy sets, 2013.	2013

53.	P.Rajarajeswari and N. Uma, Correlation measure for intuitionistic fuzzy multi sets, International Journal of Research in Engineering and Technology, Jan 2014, 3(1), 611-617.	2014
54.	P.Rajarajeswari and N. Uma, Intuitionistic fuzzy multi similarity measure based on cosine function, International Journal of Scientific research, 2014, .	2014
55.	P. Rajarajeswari and P. Dhanalakshmi, Applications of interval valued intuitionistic fuzzy soft matrix in decision making, Annals of fuzzy mathematics and informatics, 2014.	2014
56.	Rajarajeswari. P ,Nirmala.V and Parimala.V , Application of Runge-Kutta method for finding multiple numerical solutions to intuitionistic fuzzy differential equations, Journal of Physics: Conference Series Volume 1139 (2018)012012	2018
57.	Rajarajeswari. P ,Nirmala.V and Parimala.V , Numerical Solution of Intuitionistic Fuzzy differential equation by Adams's Predictor-Corrector method under generalized differentiability , Mathematical Sciences international research journal , Volume 6, special Issue No. 2 (2017), PP 156-164.	2017
58.	Rajarajeswari. P ,Nirmala.V and Parimala.V , Numerical Solution of Intuitionistic Fuzzy differential equation by Milne's Predictor-Corrector method under generalized differentiability, International journal of Mathematics and its Application, Volume 5, Issue I-A(2017), PP 45-54.	2017
59.	Rajarajeswari. P ,Nirmala. V and Parimala. V , A Comparison on Numerical Solution of Fuzzy Differential Equation under Generalized Differentiability using Second Order Runge-Kutta Methods with Higher Order Derivative Approximations, International Journal of Applied Engineering Research, Volume 10, special Issue No.72 (2015), PP 58-64.	2015
60.	Rajarajeswari. P ,Nirmala. V and Parimala. V,Numerical Solution of Fuzzy Differential Equations under Generalized Differentiability Concept by New Runge-Kutta –Like Formula of Order 4 , International Journal of Applied Engineering Research, Volume 10, special Issue No.72(2015), PP. 52-57.	2015
61.	Rajarajeswari. P ,Nirmala. V and Parimala. V , Intuitionistic Fuzzy Differential Equation and Numerical Solution by Fourth order Runge-Kutta Method under Generalized Differentiability , International Journal of Applied Engineering Research, Volume. 10 , special Issue No.72 (2015), PP 46-51.	2015
62.	Rajarajeswari. P ,Nirmala. V and Parimala. V , Modified Euler Method for Finding Numerical Solution of Intuitionist Fuzzy Differential Equation under Generalized Differentiability concept, International Journal of Applied Engineering Research, Volume 10, special Issue No.72 (2015), PP 40-45.	2015
63.	Rajarajeswari. P, Nirmala. V and Parimala. V , A Second order Range Kutta Method to Solve Fuzzy Differential Equation with Fuzzy Initial Condition, International Journal of Science and Research, Volume 3, Issue 3, March 2014, PP 428-431.	2014
64.	P.Rajarajeswari and G. Menaka, "The Structure of Transportation Problem Involves an Octagonal Intuitionistic Fuzzy Numbers", International Journal of Advanced and Innovative Research (IJAIR) , (2278-7844) / #118 / Volume 6 Issue 3 (March 2017).	2017
65.	P.Rajarajeswari and G.Menaka , " A New Approach For Ranking of Octagonal Intuitionistic Fuzzy Numbers", International Journal of Fuzzy Logic Systems (IJFLS), Vol.7, No.2, April 2017.	2017
66.	P.Rajarajeswari and G. Menaka , "Ranking of Octagonal Intuitionistic Fuzzy Numbers", International Organization of Scientific Research (IOSR) IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 13, Issue 3, Ver. II (May - June 2017), PP 63-71.	2017

67.	P.Rajarajeswari and G.Menaka , "Ann Innovative Method For Finding Optimal Solution To Transportation Problems", Mathematical Sciences International Research Journal(IMRF), Volume 6 , ISSN 2278-8697, ISSUE 2 (2017).	2017
68.	P.Rajarajeswari and G.Menaka, "A New Ranking Method Is Used In Costs , Supplies and Demands Are Octagonal Intuitionistic Fuzzy Numbers", International Journal of Innovative Research Explorer (IJIRE),Volume 5, Issue 5, May / 2018, ISSN NO : 23476060 .	2018
69.	P.Rajarajeswari, G.Menaka, New Alpha Cut Arithmetic Operations Using Octagonal Fuzzy Numbers, Ijrar - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348- 1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.336-349, June 2019, http://www.ijrar.org/IJRAR19K6755.pdf	2019
70.	P.Rajarajeswari, G.Menaka, Ordering Octagonal Fuzzy Numbers Using Rank,Mode,Divergence And Spread Page No: 1144-1152 DOI:10.123.JICS.2019.V9I11.535569.11132	2019
71.	P.Rajarajeswari and M.Sangeetha, New similarity performance measure of fuzzy transportation problem, IJIRCCE-International journal of innovative Research in computer and Communication engineering, ISSN:2320-9798,vol 4,issue 4,page 19-26,April 2016.(IMRF)(Scopus INDEX)	2016
72.	P.Rajarajeswari and G.Menaka,"The Structure of Transportation Problem Involves Octagonal Intuitionistic Fuzzy Numbers", International Journal of Advanced Research (IJAIR), (2278-7844) / #118 / Volume 6 Issue 3 (March 2017).	2017
73.	P.Rajarajeswari and G.Menaka, "A New Approach For Ranking of Octagonal Intuitionistic Fuzzy Numbers", International Journal of Fuzzy Logic Systems (IJFLS) , Vol.7, No.2, April 2017.	2017
74.	P.Rajarajeswari and G.Menaka, "Ranking of Octagonal Intuitionistic Fuzzy Numbers", International Organization of Scientific Research (IOSR) IOSR Journal Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 13, Issue 3, Ver. II (May - June 2017), PP 63-71.	2017
75.	P.Rajarajeswari and G.Menaka , "Ann Innovative Method For Finding Optimal Solution To Transportation Problems", Mathematical Sciences International Research Journal (IMRF), Volume 6 , ISSN 2278-8697, ISSUE 2 (2017). [SCOPUS INDEXED]	2017
76.	P.Rajarajeswari and G.Menaka, "An Innovative Method For Finding Optimal Solution To Transportation Problems", Mathematical Sciences International Research Journal (IMRF), Volume 6 , ISSN 2278-8697, ISSUE 2 (2017).	2017
77.	P.Rajarajeswari and M.Sangeetha, Multi-Objective Fuzzy Fully Linear Programming Transportation Problem, Mathematical Sciences International Research journal volume 6 issue 2, pp.135-141, August 2017, ISSN: 2278-8697, (IMRF) (Scopus INDEX).	2017
78.	P.Rajarajeswari and M. Sangeetha, Multi-Objective Fuzzy Fully Linear Programming Transportation Problem, Mathematical Sciences International Research journal volume 6 issue 2, pp.135-141,August 2017, ISSN: 2278-8697, (IMRF)(Scopus INDEX).	2017
79.	Rajarajeswari.P, Nirmala.V and Parimala.V, Numerical Solution of Intuitionistic Fuzzy differential equation by Milne's Predictor - Corrector method under generalized differentiability, International journal of Mathematics and its Application, Volume 5, Issue I - A(2017) PP 45-54.	2017

80.	Rajarajeswari.P ,Nirmala.V and Parimala.V , Numerical Solution of Intuitionistic Fuzzy differential equation by Adams's Predictor - Corrector method under generalized differentiability , Mathematical Sciences international research journal , Volume 6, special Issue No.2(2017),PP 156-164.	2017
81.	P. Rajarajeswari and M. Sangeetha , Multi-Objective Fuzzy Fully Linear Programming Transportation Problem Using Ranking function , Mathematical Sciences International Research journal, ISSN: 1311-8080 (printed version), 1314-3395(online version), December 2017 (IJPAM).	2017
82.	P.Rajarajeswari and M.Sangeetha, Fuzzy Largest Cost Entry method of Transportation Problem using Heptagonal fuzzy numbers, NONLINEAR STUDIES – volume 24, issue no.4, ISSN: 1359-8678, pp.1-8,(Scopus INDEX), December2017.page 19-26.	2017
83.	P.Rajarajeswari and G.Menaka , "A New Ranking Method Is Used In Costs, Supplies and Demands Are Octagonal Intuitionistic Fuzzy Numbers", International Journal of Innovative Research Explorer (IJIRE),Volume 5, Issue 5, May 2018. [UGC Approved].	2018
84.	P.Rajarajeswari and J.Vanitha, "Multi Interval valued Fuzzy Soft Matrices and its Applications", International Journal of Research (IJR), Volume 7, Issue 11, November – 2018. [UGC Approved]	2018
85.	P.Rajarajeswari and J.Vanitha, "Multi Interval valued Fuzzy Soft Matrices and its Applications", International Journal of Research (IJR),Volume 7, Issue 11, November – 2018.	2018
86.	Rajarajeswari.P, Nirmala.V and Parimala.V, Application of Runge-Kutta method for finding multiple numerical solutions to intuitionistic fuzzy differential equations, Journal of Physics: Conference Series Volume 1139 (2018).	2018
87.	P.Rajarajeswari, D.Maheswari, "New Algorithm for solving unbalanced Assignment problem", International Journal of Research, 2236 6124, Dec 2018, Vol VII, Issue XII, 596-603. [UGC Approved]	2018
88.	P. Rajarajeswari and T. Mathi Sujitha, An Application of Interval – Valued Intuitionistic Fuzzy Soft Matrix Theory in Decision Making using Choice Matrix(DOI No.:16.10089/IJR), International Journal of Research (IJR), Vol.VII, Issue: XII pp. 336-345, Dec 2018.	2018
89.	P. Rajarajeswari and T. Mathi Sujitha, "An Application of Interval-Valued Intuitionistic Fuzzy Soft Matrix theory in Decision making using Choice matrix" International Journal of Research,Volume 7, Issue XII, December /2018 ISSN NO:2236-6124. DOI NO.:16.10089/IJR	2018
90.	P.Rajarajeswari, D.Maheswari "A New Approach to Solve Fuzzy Travelling Salesman Problem", International Journal of Advanced Scientific Research and Management, 2455-6378, Feb2019, Vol 4, issue 2, 111-113. [UGC Approved]	2019
91.	P.Rajarajeswari, D.Maheswari, "A New Algorithm to Solve Sequencing Problem Using Trapezoidal Fuzzy Numbers", international journal of research and analytical reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Feb 2019, Volume 6,Issue 1,1765-1768. [UGC Approved]	2019
92.	Dr.P.Rajarajeswari and G.Menaka, "New Alpha Cut Arithmetic Operations Using Octagonal Fuzzy Numbers ", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.336-349, June 2019. [UGC Approved]	2019
93.	Dr.P.Rajarajeswari and G.Menaka, "Ordering MCDM Problems Using Octagonal Fuzzy Numbers ", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.679-687, June 2019. [UGC Approved]	2019

94.	P.Rajarajeswari, D.Maheswari, "Algorithm to solve interval integer transportation problem", Journal of information and computational science, 1548-7741, Oct 2019, Vol 9,Issue 10, 10-16. [UGC care Group-II]	2019
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105.	P.Rajarajeswari, D.Maheswari, "A new approach to solve interval valued transportation problem", Journal of Resource Management and Technology, 0745-6999 , April 2020, Vol11,Issue2,1-4. [UGC care Group-II]	2020
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Papers presented in National and International Conferences

1. Presented a paper titled "Equal Degree set and Equal Degree set number of a Graph" in UGC sponsored state level seminar at G.V.G. College, Udumalpet on 1st and 2nd February 2002.

2. Presented a paper titled "Strongly αg-closed sets" at Nirmala College, Coimbatore on 22nd September 2004.

3. Presented a paper titled "Strongly αg-closed set functions", UGC sponsored at Erode Arts College, Erode, 30th & 31st December 2004.

4. Presented a paper titled "Institutional Planning for Higher Education" at Sri Nehru Maha Vidyalaya College, Coimbatore on 10th & 11th March 2005.

5. Presented a paper titled "sαg-locally closed sets and sαg-locally continuous maps" in a UGC sponsored national conference on Operator theory at Govt. Arts College, Coimbatore on 1st and 2nd March 2007.

6. Presented a paper titled "Contra sαg-continuous maps" at a UGC sponsored national conference on Recent trends in Fuzzy Mathematics at N.G.M. College, Pollachi on 9th and 10th March 2007.

7. Presented a paper titled "Quasi sαg-continuous maps and perfectly sαg- continuous maps" in a National Conference on Emerging trends in Mathematical Sciences at Kongunadu Arts and Science College, Coimbatore on 29th February and 1st March 2008.

8. Presented a paper titled "sαg-compactness and sαg-connectedness" and won First Prize at a National Seminar on Mathematics, A Reverberation- 2008 at P.S.G.R. Krishnammal College for women, Coimbatore on 28th August 2008.

9. Presented a paper titled "sαg-Homeomorphisms" at Sree Saraswathi Thyagaraja College in National Seminar on Modern Techniques and Applications in Mathematics on 16th September 2008.

10. Presented a paper titled "sαg-closed maps" at Vivekanandha College of Arts and Sciences for Women in National level Seminar on Recent Technical Sources of Applied Mathematics on 26th February 2010.

11. Presented a paper titled "sαg T$_c$- spaces in Topology" at Dr. N.G.P Arts and Science College in State level Seminar on Modern Trends in Mathematical Sciences on 5th March 2010.

12. Presented a paper titled "Totally sαg- continuous maps, Strongly Totally sαg- continuous maps and Contra sαg- continuous maps" in International Conference on Emerging trends in Mathematics and Computer Applications at Mepco Schlenk Engineering college, Sivakasi on Dec2010. 16-18.

13. Presented a paper titled "Fuzzy strongly α-generalized closed sets in Fuzzy Topology", in International Conference on Mathematical Sciences in honour of Professor A.M. Mathai at st. Thomas college, Kerala on Jan2011, 3-5.

14. Presented a paper titled "γ- sαg open sets in Topological spaces" in National Conference on Recent Frontiers in Applied Dynamical Systems at Karunya University on Jan 21st and 22nd 2011.

15. Presented a paper entitled "Fuzzy weakly $\alpha\lambda$-closed sets in Fuzzy Topology" in UGC sponsored National seminar on Recent Trends in the Applications of Mathematical Sciences at Vellalar College for Women on 27th and 28th Jan 2011.

16. Presented a paper entitled "Fuzzy weakly $\alpha\lambda$-continuous maps" in UGC sponsored National conferences on Recent Advances in pure and applied Mathematics at Govt. Arts college for Women, Pudukkottai on 28th and 29th Jan 2011.

17. Presented a paper entitled "sαg-closure in topological spaces" in UGC sponsored National conference on Non-linear Differential equations and Dynamical systems at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on Feb 18-19 , 2011.

18. Presented a paper entitled "A new type of closed mapping in Intuitionistic fuzzy topological space", Proceedings of the International Conference on Mathematics in Engineering & Business Management, March 9-10, 354 - 357, 2012.

19. Presented a paper entitled "Intuitionistic fuzzy completely generalized pre-continuous mappings", Proceedings of the International Conference on Mathematics in Engineering & Business Management, March 9-10, 361-3363, 2012.

20. Presented a paper entitled "Multi objective fuzzy optimization techniques in production planning process", proceedings of the Heber International Conference on Applications of Mathematics and Statistics, 370 – 374, 2012.

21. Presented a paper entitled "Perception of consumers on a brand and decision making for the brand managers", Proceedings of the National level conference on "Brand India", 267-271, 2012.

22. Presented a paper entitled "Intuitionistic fuzzy contra weakly generalized irresolute mappings", in the National Seminar on "Modern Techniques and Applications in Mathematics" conducted by Sree Saraswathi Thyagaraja College, Pollachi on 4th March 2013.

23. Presented a paper entitled "A new type of irresolute mappings in intuitionistic fuzzy topological spaces", Proceedings of the National Conference on "Recent Trends in Analysis & Applied Mathematics " conducted by National Institute of Technology, Trichy on May 9-10, 2013
.
24. Presented a paper entitled "On Intuitionistic Fuzzy Transportation Problem using Octagonal Intuitionistic Fuzzy Numbers" conducted by International Conference on Applied Mathematics and Informatics (ICAMI 2017) Kongu Arts and Science

25. Presented a paper entitled "Transportation Problem with Octagonal Intuitionistic Fuzzy Numbers Solved Using Modi Method" conducted by International Conference on Differential Equations and Applications (ICDEA 2017) Bharathiar University, Coimbatore.

26. Presented a paper entitled "An Innovative Method For Finding Optimal Solution To Transportation Problems" conducted by The International Conference on Mathematics – 2017, Providence College for Women, Coonoor, TamilNadu

27. Presented a paper entitled "Multi Objective Fuzzy Fully linear programming transportation problem" conducted by International Conference on Mathematics held at Providence College for

women, Coonoor.

28. Presented a paper entitled "Multi Objective Fuzzy Fully linear programming transportation problem using Ranking function" conducted by In International Conference on Advances in Applicable Mathematics held at Bharathiar University, Coimbatore

29. Presented a paper entitled "On Intuitionistic Fuzzy Transportation Problem using Octagonal Intuitionistic Fuzzy Numbers", International Conference on Applied Mathematics and Informatics (ICAMI 2017) , Kongu Engineering College , Perundurai .

30. Presented a paper entitled "Transportation Problem with Octagonal Intuitionistic Fuzzy Numbers Solved Using Modi Method", International Conference on Differential Equations and Applications (ICDEA 2017) , Bharathiar University, Coimbatore.

31. Presented a paper entitled "An Innovative Method For Finding Optimal Solution To Transportation Problems", The International Conference on Mathematics – 2017, Providence College for Women, Coonoor, TamilNadu.

32. Presented a paper entitled "A New Algorithm of Solving Transportation Problem by using Range Method", in the one day International Conference on Recent Advances in Mathematics and Statistics" organized by the PG & Research Department of Mathematics, Sri Ramakrishna College of Arts & Science (Autonomous), Coimbatore – 06 on 23rd May 2022.

32. Presented a paper entitled "Solving Picture Fuzzy Transportation Problem using some Distance Measures", in the one day International Conference on Recent Advances in Mathematics and Statistics" organized by the PG & Research Department of Mathematics, Sri Ramakrishna College of Arts & Science (Autonomous), Coimbatore – 06 on 23rd May 2022.

33. Presented a paper entitled "Interval Valued Picture Fuzzy Transportation Problem using New Ranking Technique", DST – SERB, New Delhi sponsored "International Conference on Blooming Fuzzifier Logic (ICBFL - 2023)" organized by the Department of Mathematics, Chikkanna Government Arts College, Tirupur – 641602 during 23rd & 24th of August, 2023.

33. Presented a paper entitled "Interval Valued Picture Fuzzy Matrix and its Application in Medical Diagnosis", DST – SERB, New Delhi sponsored "International Conference on Blooming Fuzzifier Logic (ICBFL - 2023)" organized by the Department of Mathematics, Chikkanna Government Arts College, Tirupur – 641602 during 23rd & 24th of August, 2023.

34. Presented a paper entitled "A Novel Algorithm for Solving Fermatean Fuzzy Solid Transportation Problem", DST – SERB, New Delhi sponsored "International Conference on Blooming Fuzzifier Logic (ICBFL - 2023)" organized by the Department of Mathematics, Chikkanna Government Arts College, Tirupur – 641602 during 23rd & 24th of August, 2023.

35. Presented a paper entitled " ", DST – SERB, New Delhi sponsored "International Conference on Blooming Fuzzifier Logic (ICBFL - 2023)" organized by the Department of Mathematics, Chikkanna Government Arts College, Tirupur – 641602 during 23rd & 24th of August, 2023.