

**A.D.M.COLLEGE FOR WOMEN, (AUTONOMOUS), NAGAPATTINAM**

**PG & RESEARCH DEPARTMENT OF MATHEMATICS**

**Publication of Journals**

**Books Authored - 2**

| <b>Name</b>             | <b>Book</b>   | <b>Publishers</b>   |
|-------------------------|---|---|
| Dr. R. Sophia Porchelvi | A Chapter entitled ‘Chance constrained fuzzy goal programming with penalty functions for academic resource planning in University Management using genetic algorithm’ | ‘Nature Inspired Computing and Optimization: Theory and Applications’, <b>Springer Publishing, Germany.</b> |
|                         | ‘Integral Transforms and Partial Differential Equations with Matlab Codings’  | Prentice Hall of India, New Delhi (Under Print)   |

**Elsevier / Springer Link - 11**

| <b>Name</b>             | <b>Title of the Paper Published</b>   | <b>Name of the Journal</b>                                      | <b>Volume, Issue, ISSN, &amp; ISBN No:</b>   |
|-------------------------|---|---|--|
| Dr. R. Sophia Porchelvi | On Solving a Multi Objective Fuzzy Number Linear Programming Problem  | International Journal of Pure and Applied Mathematical Sciences | Vol. 7(1), 9-13, impact factor: 0.635, H index: 24, (2014),  |
|                         | Solving Intuitionistic Fuzzy Multi-Objective Linear Programming   | International Journal of Pure and Applied Mathematics”,         | 1314-3395, (online), impact factor: 0.635, H index: 24.  |
|                         | On Studying Antibiotic in the Blood Stream by the Method of Dynamic Model   | International Journal of Physical Sciences                      | Vol. 25(1), 135-138, impact factor: 0.50, immediacy index: 0.02, google scholar h5- index:29, (2013) |
|                         | Shortest path problem in a network using Intuitionistic fuzzy number – A case study about Kanyakumari Roadways network. | Elixir Appl. Math   | Vol. 82, 32655 – 32657, (2015), impact factor:6.025, ICV(2015):74.39.                                |
|                         | On Taking & Using Insurance Policies at the right time – a Study using Fuzzy Matrices                                   | Elixir Appl. Math.  | Vol. 82, 32658 – 32660, (2015), impact factor:6.025, ICV(2015):74.39.                                |
|                         | On Evaluating the Performance of Students using Fuzzy Techniques  | Elixir Appl. Math.  | Vol. 82, 32665 – 32669, (2015), impact factor:6.025,   |

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|  |   |  | ICV(2015):74.39   |
|  | On Taking & Using Insurance Policies at the right time – a Study using Fuzzy Matrices | Elixir Appl. Math  | Vol. 82, 32658 – 32660, (2015), impact factor:6.025, ICV(2015):74.39  |
|  | On Evaluating the Performance of Students using Fuzzy Techniques                      | Elixir Appl. Math.                                       | Vol. 82, 32665 – 32669, (2015), impact factor:6.025, ICV(2015):74.39. |
|  | A Study on socio-economic and demographic factors on anemia among rural women         | Elixir International Journal                             | February 2016, impact factor:6.025, ICV(2015):74.39.                  |
|  | Linear Programming Model for Energy Efficient in Buildings                            | Elixir International Journal                             | February 2016, impact factor:6.025, ICV(2015):74.39.                  |
|  | Decision making model to reduce the burden on Municipalities                          | Elixir International Journal of Environment and Forestry | Vol.72, pp.25405-25409,(2014), impact factor:6.025, ICV: 74.39.       |

#### UGC List of Journals - 27

| Name                    | Title of the Paper Published   | Name of the Journal  | Volume, Issue, ISSN, & ISBN No:   |
|-------------------------|--|--|---|
| Dr. R. Sophia Porchelvi | On studying a health problem using Fuzzy Matrices  | International Review of Fuzzy Mathematics                    | Vol. 6(1), (2011) p.15-20.  |
|                         | On Solving a Multi objective Fuzzy Linear Programming Problem Using Modified Arithmetic                  | International Review of Fuzzy Mathematics                    | Vol.7, No.1, p.21-25, (2012)  |
|                         | On Solving a Fuzzy Linear Programming Using Simplex Procedure with Symmetric Trapezoidal Fuzzy Numbers”. | International Review of Fuzzy Mathematics                    | Vol.7, No.2, p.59-64,( 2012)  |
|                         | A modified algorithm for solving shortest path problem with Intuitionistic fuzzy arc lengths             | International Journal of Scientific and Engineering Research | Vol. 4(10), 844-847, impact factor:0.18, (2013), ICV(2013): 7.5 points. |
|                         | Solving multi-objective Intuitionistic linear programming using Triangular Intuitionistic fuzzy number   | International Journal of Scientific and Engineering Research | Vol.4, No.9.p.87-89, (2013), impact factor:0.18, ICV(2013): 7.5 points  |

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| Biomass for Energy production and Interval Transportation Problem to minimize transportation cost    | International Organization of Scientific Research             | ISSN: 2319-7668, pp 31-35, (2013), impact factor: 1.759, H index: 16.                            |
| Critical path analysis in a project network using ranking method in Intuitionistic fuzzy environment | International Journal of Advance Research                     | 3(3), 14-20, ISSN: 2320-9143,(2015), impact factor:5.336, H index: 10.                           |
| On Solving Bivariate Unconstrained Optimization Problems using Interval Analysis                     | International Journal of Scientific and Engineering Research  | Vol.6 (2), 842 and 843, ISSN: 2229-5518, (2015), impact factor:0.18, ICV(2013): 7.5 points       |
| A New Algorithmic approach to linear multi objective fractional Transportation problem               | International Journal of Scientific and Engineering Research  | Vol.6, No 3, page 229 – 231, (2015), impact factor:0.18, ICV(2013): 7.5 points.                  |
| Regression Model for the people working in Firework Industry - Virudhunagar District                 | International Journal of scientific and Research Publications | Vol. 5, No.4, p.1-6, ISSN 2250 – 3153, (2015), impact factor:5.971, ICV(2015):5.72, H index: 24. |
| A New Algorithmic approach to linear multi objective fractional Transportation problem               | International Journal of Scientific and Engineering Research  | Vol.6, No 3, page 229 – 231, (2015) impact factor:0.18, ICV(2013): 7.5 points                    |
| Regression Model for the people working in Firework Industry - Virudhunagar District                 | International Journal of scientific and Research Publications | Vol. 5, No.4, p.1-6, ISSN 2250 – 3153, (2015), impact factor:5.971, ICV(2015):5.72, H index: 24. |
| Upper Bounds of Linear Fractional Capacitated Transportation Problem and its Paradox                 | Global journal of Pure and Applied Mathematics                | Volume 13, Number 2 (2017), pp. 69-77, impact factor: 2.38., Scopus indexed, H index: 6.         |
| Fuzzy Modelling and HIV Infection of Tamil Nadu and Andhra Pradesh in India                          | Global journal of Pure and Applied Mathematics                | Volume 13, Number 2 (2017), pp. 199-217, impact factor:  |

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|   |  | 2.38., Scopus indexed, H index: 6.   |
| “Transportation of Urea: A case study using Multi – Objective Transportation Problem                          | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 199-217, impact factor: 2.38., Scopus indexed, H index: 6.   |
| On solving Multi – Objective Linear Programming Problem with Hexagonal Intuitionistic Fuzzy Number (IVIFNS)   | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 225-231, impact factor: 2.38., Scopus indexed, H index: 6.   |
| Mathematical Modelling for Retail Product rating using Triangular Intuitionistic Fuzzy Numbers                | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 445-453, impact factor: 2.38., Scopus indexed, H index: 6.   |
| On solving Multi – Objective Linear Programming Problem with Pentagonal Intuitionistic Fuzzy Number (IVIFNS ) | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 489-495, impact factor: 2.38., Scopus indexed, H index: 6.   |
| Solving Fuzzy Non-linear unconstrained Optimization Problem using Newton’s Method”                            | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 552-557, impact factor: 2.38., Scopus indexed, H index: 6    |
| Case Study: Decision Making in Mushroom Cultivation   | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 889-899, impact factor: 2.38., Scopus indexed, H index: 6.   |
| Fuzzy DIJKSTRA’S Algorithm for Shortest Path Problem in Image Segmentation                                    | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp. 1034-1039, impact factor: 2.38., Scopus indexed, H index: 6. |
| Biomass from Water Hyacinth – Mathematical Modeling using   | Global journal of Pure and Applied Mathematics | Volume 13, Number 2 (2017), pp.1040-   |

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|  | Regression   |  | 1047, impact factor: 2.38., Scopus indexed, H index: 6.                                     |
|  | A New Algorithmic Approach for Algebraic Elimination Method to solve Fuzzy Linear Complementarity Problem        | Global journal of Pure and Applied Mathematics               | Volume 13, Number 2 (2017), pp.445-453, impact factor: 2.38., Scopus indexed, H index: 6.   |
|  | Variable Dimension Algorithmic approach to solve Intuitionistic Fuzzy Linear Complementarity Problem             | Global journal of Pure and Applied Mathematics               | Volume 13, Number 2 (2017), pp.496-504, impact factor: 2.38., Scopus indexed, H index: 6.   |
|  | A study on Diet Planning and Preventing Diseases with Linear Programming   | Global journal of Pure and Applied Mathematics               | Volume 13, Number 2 (2017), pp.1141-1145, impact factor: 2.38., Scopus indexed, H index: 6. |
|  | A Multiobjective Fuzzy Linear Programming Problem Using Ranking Functions of Symmetric Trapezoidal Fuzzy Numbers | International Journal of Scientific and Engineering Research | Vol. 4, No.10, 848-851, (2013), impact factor:0.18, ICV(2013): 7.5 points                   |
|  | Computation of shortest path in a network using Triangular intuitionistic fuzzy numbers                          | International Journal of Scientific and Engineering Research | Vol.5(4) , 1254-1257, (2014), ISSN : 2229-5518, impact factor:0.18, ICV(2013): 7.5 points   |

**Anna University Annexure - I Journals - 7**

| <b>Name</b>             | <b>Title of the Paper Published</b>   | <b>Name of the Journal</b>                                  | <b>Volume, Issue, ISSN, &amp; ISBN No:</b>         |
|-------------------------|---|---|--|
| Dr. R. Sophia Porchelvi | Iterative Goal Programming Approach for Solving Multi-objective Intuitionistic Fuzzy Linear Programming Problem | Asian Journal of Research in Social Sciences and Humanities | Vol.6, No.9, 2016", impact factor:4.557, ICV:5.05. |
|                         | A Fuzzy Shortest Path Algorithm For Optimal Boundary Extraction In Image Processing                             | Asian Journal of Research in Social Sciences and Humanities | Vol.6, No.9, 2016, impact factor:4.557, ICV:5.05.  |

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| Mathematical Modeling of The Spread of An Epidemic Disease –Mumps   | Asian Journal of Research in Social Sciences and Humanities | Vol.6, No.9 September 2016, pp.2002-2016, ISSN 2249-7315, impact factor:4.557, ICV:5.05   |
| Solving Linear Fractional Programming Problem Using LU Factorization Method                                     | Asian Journal of Research in Social Sciences and Humanities | vol.6,no.10,october 2016 , pp : 1929-1938, ISSN:2249-7315, impact factor:4.557, ICV:5.05. |
| A Diversified Approach For Solving An Assignment Problem  | Asian Journal of Research in Social Sciences and Humanities | vol.6,no.10,october 2016 , pp : 1945-1954, ISSN:2249-7315, impact factor:4.557, ICV:5.05. |
| Iterative Goal Programming Approach for Solving Multi-objective Intuitionistic Fuzzy Linear Programming Problem | Asian Journal of Research in Social Sciences and Humanities | Vol.6, No.9, 2016, impact factor:4.557, ICV:5.05.   |
| A Mathematical Diet Problem For The Nutritional Health Disorder   | Asian Journal of Research in Social Sciences and Humanities | Vol. 6, No.9 September 2016, pp.1994-2001, ISSN 2249-7315, impact factor:4.557, ICV:5.05  |

**Anna University Annexure - II Journals - 8**

| <b>Name</b>             | <b>Title of the Paper Published</b>  | <b>Name of the Journal</b>                            | <b>Volume, Issue, ISSN, &amp; ISBN No:</b>   |
|-------------------------|--|---|--|
| Dr. R. Sophia Porchelvi | Critical path problem under Intuitionistic fuzzy environment   | International Journal of Applied Engineering Research | Vol.10(51), 975-978, ISSN: 0973 – 4562, (2015), impact factor:0.14, H index: 9.      |
|                         | On Applying Numerical Methods to Unconstrained Optimization Problems   | International Journal of Applied Engineering Research | Vol. 10 (51), 1002-1005, (2015), ISSN: 0973-4562, impact factor:0.14, H index:       |
|                         | Mathematical Modeling and Optimization of Biomass energy production from the aquatic weed Water Hyacinth – Eichhornia Crasspes | International Journal of Applied Engineering Research | Vol.10, No 51, p. 897-901, ISSN 0973 – 4562, (2015), impact factor:0.14, H index: 9. |

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|  | A Simple Integer Linear Programming Model for Hybrid Wind-Solar Systems               | International Journal of Applied Engineering Research | Vol.10, No 51, p. 1051-1053, ISSN 0973 – 4562, (2015), impact factor:0.14, H index: 9.   |
|  | On solving Muti-Objective Intuitionistic Fuzzy Linear Programming problem             | International Journal of Applied Engineering Research | Vol.10, No 51, page 1046-1050, ISSN 0973 – 4562, (2015), impact factor:0.14, H index: 9. |
|  | Ranking function methods for Solving Fuzzy Multiobjective Linear Programming Problems | International Journal of Applied Engineering Research | Vol.10, No 51, p. 935-939, ISSN 0973 – 4562, (2015), impact factor:0.14, H index: 9.     |
|  | Paradox in a Linear Multi-Objective Fractional Transportation Problem                 | International Journal of Applied Engineering Research | Vol.10, No 51, page 1037-1040, ISSN 0973 – 4562, (2015) impact factor:0.14, H index: 9.  |
|  | A Mathematical modeling of epidemic with excel  | Bulletin of Pure and Applied Sciences                 | Vol.28(2), p.71-80, impact factor: 0.011, ICV: 91.92, (2012)                             |

#### Other Journals - 44

| Name                    | Title of the Paper Published  | Name of the Journal   | Volume, Issue, ISSN, & ISBN No:                      |
|-------------------------|---|---|--|
| Dr. R. Sophia Porchelvi | Multidimensional Birth and Death representation of a queueing system with heterogeneous exponential servers                 | Computational Mathematics, Narosa Publishing House Pvt. Ltd., New Delhi   | pp 225- 231. ISBN 81-7319-619-2, (2005)              |
|                         | An Algorithmic Approach to Multi Objective Fuzzy Linear Programming Problem   | International Journal of Algorithms, Computing and Mathematics            | Vol.3(4),p.61-70, (2010)                             |
|                         | A Shortest Path Algorithm for Optimal Boundary Extraction in Image Processing   | Journal of Ultra Scientist of Physical Sciences                           | Vol.22(3).p.741-746, (2010), impact factor: 2.7.     |
|                         | A New Algorithm for Optimal Boundary Extraction in Image Processing   | International Journal of Computer, Mathematical Sciences and Applications | Vol.4(3), p.269-275, (2010) impact factor: 4.655.    |
|                         | A Statistical survey and analysis report on people working in Match Box Industry-Kovilpatti and their level of satisfaction | International Review of Pure and Applied Mathematics                      | Vol.8, No.1, p.37-47, (2012), Impact Factor:0.233, H |

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| towards the working Environment and other aspects   |   | index: 23.  |
| On Solving Unconstrained Optimization Problem using Numerical methods                             | International Journal of Algorithm and Computing and Mathematics                    | Vol.5,No.2, p. 32-38, (2012)  |
| On Solving a Multi Objective fuzzy variable linear programming problem using ranking functions    | International Journal of Science and Research                                       | Vol.2 , No.1, p.733-735, impact factor:0.547, (2013), ICV(2013): 6.14 points. |
| A Newton's method for solving nonlinear unconstrained optimization problems with two variables    | International journal of Science and Research                                       | Vol.2, No.1, 726-728, (2013), impact factor:0.547, ICV(2013): 6.14 points     |
| On Solving a Multi Objective Fuzzy Number Linear Programming Problem                              | International Journal of Pure and Applied Mathematical Sciences                     | Vol.7(1), 9-13, impact factor: 0.635, (2014), H index: 24.                    |
| A method for Minimization of Unconstrained Problems via Non Linear Equations                      | Proceedings of the International Conference on Mathematical Methods and Computation | p.803-806, ISSN 0973 – 0303, (2014)   |
| On solving a Multiobjective fractional linear programming problems                                | International Journal of Current Research   | Vol.6(8),8095 - 8102,ISSN : 0975-833X, 2014, impact factor:0.675, H index: 5. |
| Modeling and Optimizing the Transshipment problem of Municipal solid waste management             | International Journal of Engineering Research                                       | Vol.2, No.8, pp.117-130, 2014, impact factor: 0.421, H index: 12, ICV: 5.49.  |
| A New Approach for finding minimum path in a network using Triangular Intuitionistic Fuzzy number | International Journal of Current Research   | Vol.6, No.8, pp. 844-847, impact factor:0.675, 2014, H index: 5.              |
| Fuzzy Shortest Path Method using $\lambda$ -triangular LR Intuitionistic Fuzzy numbers            | International Journal of Applied Mathematical Sciences                              | Vol.7 No.1, pp. 33-39, 2014.  |
| Modified Approach on Shortest Path in Intuitionistic Fuzzy Environment                            | Indian Journal of Applied Research,   | Vol.4 No.9, pp. 341-342, 2014, impact factor:0.454, ICV: 79.96                |
| Group Decision Making for safe disposal of Commercial Fish waste                                  | International Journal of Sientific and Research Publications                        | Volume 5, Issue 4, p.1-6, ISSN 2250 – 3153, 2015, impact factor:0.18,         |



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|  |   |   | ICV(2013): 7.5 points. |
| A Comparative study of optimum solution between Fractional Transportation and Fractional Transshipment problem                                     | International Journal of Science and Research         | Vol.4, No 3, page 1102-1105, 2015, impact factor:0.23, ICV(2015): 78.96.                        |                        |
| A Comparative study of optimum solution between Fractional Transportation and Fractional Transshipment problem                                     | International Journal of Science and Research         | Vol.4, No 3, page 1102-1105, 2015, impact factor:0.23, ICV(2015): 78.96.                        |                        |
| Modified New Operations for Interval Valued Intuitionistic Fuzzy numbers: Linear programming Problems with pentagonal Intuitionistic Fuzzy numbers | Iranian International Journal                         | 2015, impact factor:0.534.  |                        |
| On Analysing Anaemia using Fuzzy Matrices  | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 203-209. ISSN: 2320 –3242 (P), impact factor:1.137.                      |                        |
| An Application of Fuzzy Matrices in Medical Diagnosis  | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 211-216, ISSN: 2320 –3242 (P), impact factor:1.137.                      |                        |
| The Solution Procedure “PASEB” for Solving Fuzzy Multi Objective Linear Programing Problem   | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 197-202, ISSN: 2320 –3242 (P), 2320 –3250 (online), impact factor:1.137. |                        |
| On Solving a Multi-Objective Intuitionistic Fuzzy Linear Fractional Programming Problem  | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 189-196, ISSN: 2320 –3242 (P), 2320 –3250 (online), impact factor:1.137. |                        |
| Solution Procedures for Multi-Objective Intuitionistic Fuzzy Linear and Fractional Linear Programming Problems using Weighting Factor              | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 179-187, ISSN: 2320 –3242 (P), 2320 –3250 (online), impact factor:1.137  |                        |
| A Linear Fractional Interval Transportation Problem with and Without Budgetary Constraints   | International journal of Fuzzy Mathematical Archive   | Vol. 9, No.2, 2015, pp 165-170, ISSN: 2320 –3242 (P), 2320 –3250 (online), impact factor:1.137. |                        |
| A Simple Integer Linear Programming Model for Hybrid Wind-Solar Systems  | International Journal of Applied Engineering Research | Vol.10, No 51, 2015, p. 1051-1053,  |                        |

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|   |   |  | ISSN 0973 – 4562, impact factor:0.14, H index: 9.   |
| Goal Programming model for the people working in match box industry and firework industry – Virudhunagar district | Proceedings of International Conference on Advances in Science, Mathematics, English and its Applications               |  | ISBN no 978–93–84893–27-9, impact factor:2.3.   |
| Cost Benefit Analysis of installing Renewable Energy  | International Journal of scientific and research publications   |  | Vol.5, issue 4. April 2015, ISSN 2250-3153, impact factor:5.971, ICV(2015):5.72, H index: 24. |
| Multi objective decision making model for modern dairy farm using solar pv system                                 | International Journal of Pure and Applied Mathematics   |  |   |
| Analysis of Ground Water Quality by Fuzzy Comprehensive Evaluation in Cauvery Delta Region, Tamil Nadu, India     | <b>American Journal of Mathematical Analysis</b>  |  | Vol. 5, No. 1, 1-6, 2017  |
| An Assessment of Drinking Water Quality in Cauvery Delta Region and Palar Region, Tamil Nadu                      | <b>Scholedge International Journal of Multidisciplinary &amp; Allied Studies</b>  |  | Vol (3) , No.12, 2016, ISSN No: 2394-336X   |
| Multi objective Fuzzy nonlinear programming problem via Taylor Series Approach                                    | International conference on Stochastic Modeling and Simulation Allied publishers Pvt. Ltd., Delhi                       |  | p. 142-146, ISBN 978-81-8424-743-5, (2011)  |
| Multi Objective Linear Programming in a Fuzzy Environment   | Proceedings of International conference on Stochastic Modeling and Simulation, Allied publishers Pvt. Ltd., Delhi       |  | p. 147-150, ISBN 978-81-8424-743-5, 2011  |
| Problems Faced By Tourist in Nagapattinam District- A Statistical Analysis  | <b>IEEE Conference Publications</b>   |  | p.56 – 62, 2012   |
| Extension of the modified family of Schroder method for multiple roots of nonlinear equation with two variables   | Proceedings of <b>IEEE-International Conference</b> on Research and Development Prospects on Engineering and Technology |  | ISBN:978-1-4673-4948-2, 2013  |
| On Analyzing TB/HIV Co-infection using fuzzy cognitive map  | Proceedings of International Conference on Mathematical Methods and Computation   |  | p. 541-545, ISSN 0973 – 0303, 2014  |
| Intuitionistic Fuzzy Critical Path in a Network   | Proceedings of International Conference on Mathematical Methods and Computation   |  | p. 692-696, ISSN 0973 – 0303, 2014  |
| Simplex Method for Fuzzy Linear Programming Problem with Trapezoidal Fuzzy Numbers Using Ranking Functions        | Proceedings of International Conference on Mathematical Methods and Computation   |  | p.697-700, ISSN 0973 – 0303, 2014   |
| Goal Programming model for the people working in match box industry and firework                                  | Proceedings of International Conference on Advances in  |  | ISBN No. 978–93–84893–27-9. 2015  |

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|  | industry – Virudhunagar district   | Science, Mathematics, English and its Applications   |  |
|  | An Algorithmic Approach to Fuzzy Integer Programming Problem, p.                         | Proceedings of the National Conference on Fuzzy Mathematics and Graph Theory, Gigo Publications                        | 110-115, ISBN 81-88338-07, 2008          |
|  | On Solving a Socially Relevant Fuzzy Goal Programming model using Taylor Series Approach | Proceedings of the International Conference on Mathematical Methods and Computation Allied publishers Pvt. Ltd., Delhi | p. 472-478, ISBN 978-81-8424-466-3, 2009 |
|  | Application of Optimization Techniques to Image Processing                               | Proceedings of the National Conference on Fuzzy Mathematics, Graph Theory and Applications, Gigo Publications          | p. 36-39, ISBN 81-88338-08, 2009         |
|  | An approach to find the optimal paths using trapezoidal Intuitionistic fuzzy number      | Proceedings of the National Conference on Recent advances in Mathematical Analysis and Applications                    | ISBN: 978-93-82338-70-3, 2013            |
|  | On solving nonlinear equations using Numerical Methods                                   | Proceedings of National conference on Recent Advances in Mathematical Analysis & Applications                          | ISBN: 1978-93-82338-69-7, 2013           |