

# **SSN College of Engineering, Kalavakkam**

## **Mathematics Department**

### **Conference Publications**

Year	No. of publications
2012	3
2013	3
2014	5
2015	21
2016	29
2017	23

#### **2012**

1. B.Praba and S. Srikrishna, Steady state possibility distribution of a web navigational model, International Conference on Mathematical Modeling and Applied soft computing 2012, Volume 2, pg 261-269
2. Sujatha. R and Rajalaxmi T.M, Non-homogenous Fuzzy Hidden Markov Chain for web Applications, International Conference on Fuzzy Soft Computing Mathematical Analysis, 2012.
3. Kalaiyarasi P, Padma Priya N, Vinoth Kumar C, Preprocessing for Detection of lesions in retinal image analysis, Emerging Trends in Communication and Information Technology”, pp.151-155, serial number 32, 2012.

#### **2013**

1. N.Padmapriya and C. Vinoth Kumar, Detection of exudates in Retinal Images, International Conference on Mathematical Computer Engineering, VIT University Chennai, 2013.
2. R. Sujatha, T.M. Rajalaxmi, V.Sharmila, Fuzzy Hidden Markov Chain with states depending on observations for Web Applications, International Conference on Mathematical Computer Engineering, VIT University Chennai, 2013.
3. R. Sujatha, M. Boopathi, C. Senthil Kumar, Reliability Estimation of State Dependent Systems Using Fourth Order Runge - Kutta Algorithm, International Conference on Mathematical Computer Engineering, VIT University Chennai, 2013.

## **2014**

1. B.Praba, Complements of the elements of Rough Lattice, Proc. Of International Conference on Recent engineering and Technology, 'ICRTET-2014' , 13&14, March 2014.
2. B.Praba and G. Justin Brierly , Steady State Probabilities of intuitionistic fuzzy markov Chain, Proc. Of International Conference on Recent engineering and Technology, 'ICRTET-2014' , 13&14, March 2014.
3. M. Boopathi, R. Sujatha, C. Senthil Kumar, S. Narasimman, The Mathematics of Software Testing using Genetic Algorithm, 3<sup>rd</sup> International Conference on Reliability, Infocom Technologies and Optimization, Oct. 8-10, 2014, Amity University published in IEEE Conference Publications, 1-6, 2014.
4. N. Padmapriya, N. JansiRani, N.Anandraj, Atmadeep Das and S.Kaviarasan, An application of diminishing cells infinite array in image multiscale decomposition, Proceedings of International Conference on Communication and Signal Processing (ICCSP2014), IEEE (Madras Section) 2014.
5. N.Padmapriya, Methodology for the identification of lesions in color retinal images, Proceedings of International Conference on Application of Mathematics in Modern Technology (ICAMT), QMC, 2014.

## **2015**

1. S.Srikrishna, Acceptance single sampling plan using vague parameters, International conference on Science, Technology and Management, (ICSTM), 1 Feb 2015.
2. Paul Manuel, Indra Rajasingh, R. Sundara Rajan, N. Parthiban, T. M. Rajalaxmi, A Tight Bound for Congestion of an Embedding, Algorithms and Discrete Applied Mathematics, Lecture Notes in Computer Science Vol. 8959, 229-237, Conference on Algorithms and Discrete Applied Mathematics, (CALDAM), February 8-10, 2015.
3. Venugopal P, Vijayalakshmi A and Bharathi rajan, Metric Dimension of Mesh Connected trees, International Conference on Computing Sciences and Engineering (ICCSE), 15-17 March, 2015.
4. N.Padmapriya, N.Venkateswaran, Toshitha Kannan and M.Sindhu Madhuri, "Assessment of Glaucoma with ocular thermal images using GLCM Techniques" First QIRT- ASIA Conference on Quantitative Infrared Thermography conducted by IGCAR held at Mamallapuram, during July 6-10, 2015.

5. N.Venkateswaran, N.Padmapriya, P.Sophia and S.Upasana, Markov Random Field Labelling of Infrared Thermal Images: Applications in Industry and Veterinary Medicine, First QIRT- ASIA Conference on Quantitative Infrared Thermography conducted by IGCAR held at Mamallapuram, during July 6-10, 2015.
6. Dr.S.Srikrishna "Acceptance Sampling Plan using Generalized Fuzzy Parameter " in the national conference on fuzzy theory and applications, held at KCG College of Engineering during July 24 &25, 2015.
7. M.Boopathi, R.Sujatha, C.Senthilkumar and S.Narasimman, "Reliability Estimation of m-p-out-of-n standby system systems using Fourth Order Runge-Kutta Algorithm", 2<sup>nd</sup> SRESA National Conference on Reliability & Safety Engineering (NCRS-15), Oct.8-10, 2015, held at Anna University Campus, Chennai.
8. G.Kuppuswami, R.Sujatha, W.B.Vasantha, Study of Traffic flow using CETD Matrix, International Conference on Soft Computing in Applied Sciences & Engineering, (ICSCASE-2015) 23rd and 24th July 2015, Noorul islam Univ. Kanyakumari.
9. M.Saravanan, R. Sujatha, R.Sundareswaran, , A STUDY ON REGULAR FUZZY GRAPHS AND INTEGRITY OF FUZZY GRAPHS, at National Conference on Fuzzy Theory and Applications-NCFTA15 held at KCG College of Technology during 24-25 July, 2015
10. S.Naveen, R.Sujatha, V.Sharmila, S.Narasimman, Fuzzy probability approach to hidden Markov chain, at National Conference on Fuzzy Theory and Applications-NCFTA15 held at KCG College of Technology during 24-25 July, 2015
11. V.Sharmila, R.Sujatha, S.Narasimman, Fuzzy probability approach to hidden Markov chains with states depending on observation, at National Conference on Fuzzy Theory and Applications-NCFTA15 held at KCG College of Technology during 24-25 July, 2015
12. S.Srikrishna, Fuzzy Reliability of Fuzzy Probabilistic Semi-Markov Model, International Conference on Emerging Trends in Information and Communication, held at S. A. Engineering College during December 16 & 17, 2015.

13. S.Srikrishna, Fuzzy Reliability of Heterogeneous Unified Fuzzy Semi-Markov Model., International Conference on Emerging Trends in Information and Communication, held at S. A. Engineering College during December 16 & 17, 2015.
14. Sumathi R, Sujatha R , Sundareswaran R, Perfect Domination Excellent Fuzzy Tree , International Conference on Mathematical Computer Engineering ,ICMCE-2015, VIT University, Chennai
15. R.Sujatha, G.Kuppuswami, Fuzzy Cognitive Map and Induced Fuzzy Cognitive Map Approach to Traffic Flow,- International Conference on Mathematical Computer Engineering ,ICMCE-2015, VIT University, Chennai
16. Fuzzy probability approach for re-estimation of Hidden Markov Chain-S.Naveen, R.Sujatha, S.Narasimman, International Conference on Mathematical Computer Engineering ,ICMCE-2015, VIT University, Chennai
17. K. Shriram, R. Sujatha, Fuzzy Combinatorial Dual Graph, International Conference on Mathematical Computer Engineering ICMCE-2015, VIT University, Chennai
18. R.Sujatha, V.Sharmila, S.Narasimman, Re-estimation of hidden Markov model with states depending on observation – A fuzzy probability approach , International Conference on Mathematical Computer Engineering ICMCE-2015, VIT University, Chennai
19. G.Gomathi, R.Narmada Devi and B.Praba,  $N^{\alpha}$  Locally Compactness in Fuzzy Rough Topological Spaces, International Conference on Mathematical Computer Engineering, Vol. 1, No. 45-46, December 2015.
20. Dr.R.Sundareswaran, “ Very  $\beta_0$  excellent graphs,” “International conference on Mathematical computer engineering”, Dec 14 - 15, held at VIT Chennai,2015
21. T.M.Rajalaxmi, "Wirelength of Embedding of Complete t-partite Graphs into Cylinder and Torus" in the "International Conference on Mathematical Computer Engineering (ICMCE - 2015)" held at VIT Chennai during 14 - 15 December 2015.

## **2016**

1. Harshvardhan, Venkateswaran and Padmapriya, Assessment of Glaucoma with Ocular Thermal Images using GLCM Techniques and Logistic Regression classifier, IEEE WiSPNET 2016 conference, March 23-25, 2016, pp-1578-1581.

2. V. Sharmila, R. Sujatha, S. Narasimman, Fuzzy Hidden Semi Markov Chain with Observation Dependent States, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-51.
3. S. Naveen, R. Sujatha, S. Narasimman, Behaviour of Web User Detection using EM Algorithm, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-52.
4. M. Boopathi, A. Rajan, R. Sujatha, C. Senthil Kumar, A Tool for Automatic Dd-graph Generation for Software Testing, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-53-54.
5. M. Saravanan, R. Sujatha, R. Sundareswaran, Application of Domination Integrity of graphs in PMU Placement in Electric Power Networks, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-59.
6. G. Kuppuswami, R. Sujatha, Forecasting Traffic Volume Using Grey Markov Model, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-91-92.
7. K. Shriram, R. Sujatha, Network Reliability of Cluster Based adhoc Network Using Fuzzy Graphs, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-93.
8. M. Boopathi, R. Sujatha, C. Senthil Kumar, K. Sathish Kumar, Application of Multivariate Lagrange's Interpolating Polynomial Fit for Solving Engineering Problems, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-118.
9. R. Sujatha, C. G. Vignesh, Keshav V.Kumar, M. Boopathi, Computation of System Availability Using Fifth Order Runge–Kutta Method for Furnace Draft Air Cycle in a Thermal Power Plant, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-126.
10. R. Sujatha, Keshav V. Kumar, C. G. Vignesh, M. Boopathi, K.Sathish kumar, Application of Cubic Spline Interpolation for Cisplatin Drug Delivery Gold and Iron Oxide Nanoparticle-Based Ethylcellulose, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-131.

11. R. Sujatha, M. Boopathi, S. Saranya, M. Vrithika, Evaluation of an Optimal Test Paths and Software Code Coverage Using Artificial Fish School Algorithm in Software Testing, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-133-134.
12. M. Boopathi, R. Sujatha, C. Senthil Kumar, Computing Software Code Coverage and Optimal Test Paths Generation for Mixed Data Type Variables Using Artificial Firefly Algorithm, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-135-136.
13. R. Sujatha, V. Sharmila, R. Ganesh, K. Vishal, An Application of Fuzzy Hidden Markov Chains in Quality Control, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-137.
14. S. Devi, R. Sujatha, R. Sundareswaran, Power Domination of Double Vertex Graphs, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-139.
15. S. Poomagal, R. Sujatha, Ordering Generalised Trapezoidal Fuzzy Number Using Area Method by the Euler Line of the Centroids, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-140.
16. R. Sujatha, M. Boopathi, S. Surya, K. Selvendran, A Study on Particle Swarm Optimization for Computing Software Code Coverage Based on Markov Approach, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-141-142.
17. R. Sujatha, M. Boopathi, M.Dharanikumar, S. Franklin Aseervadham, S.Vijayan, A Methodology for Computing System Availability Using Fuzzy Markov Model and Fuzzy Fifth Order Runge-Kutta Method Case Study of Furnace Draft Air Cycle in a Thermal Power Plant, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-146-147.
18. R. Sujatha, M. Boopathi, S. Nishanth, L.Swaanika, An Application of Petri Nets for Evaluating System Reliability Using Fifth Order Runge - Kutta Method Based on Markov Model, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-149-150.
19. R. Sujatha, V. Sharmila, P. Hema, M. Amruth Varshinee, A. Sakthi Prasanth, Some Aspects of Human Error Analysis Using Fuzzy Relations, 3<sup>rd</sup> SRESA

- National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-151.
20. S. Vijayan, K. Padmanabhan Panchu, R. Sundareswaran , R. Sujatha, Selection of Metal Joining Process Using Graph Theoretic Approach, 3<sup>rd</sup> SRESA National Conference on Reliability and Safety Engineering (NCRS'16), SSN College of Engineering, Dec.1-3, 2016, pp-159.
  21. S.Yugesh, P. Devaraj, Bivariate cardinal spline reconstruction from their local average samples, International Workshop and Conference on Analysis and Applied Mathematics June 6-10, 2016, NIT Trichy.
  22. R.Sundareswaran, Forcing sets in graphs with respect to domination, International conference on Applied Mathematical model, PSG tech, Coimbatore , Jan5-7, 2016.
  23. B.Praba, Gomathi, An application of twin soft set and twin soft approximation spaces, International Conference on Mathematical Computer Engineering (ICMCE - 2016), VIT University, Chennai, Dec.1-17, 2016.
  24. B.Praba, Benezir Obiaa, Algorithm for maximal spanning tree and cut edges for an edge rough graph, International Conference on Mathematical Computer Engineering (ICMCE -2016), VIT University, Chennai, Dec.1-17, 2016.
  25. P.Venugopal, N.Padmapriya, A. Thilshath, Equitable Colouring of Double Vertex Graphs, International Conference on Mathematical Computer Engineering (ICMCE - 2016), VIT University, Chennai, Dec.1-17, 2016.
  26. P.Venugopal, N.Padmapriya, Buelah, Graph Distance of Vertices in Double Vertex Graphs, International Conference on Mathematical Computer Engineering (ICMCE - 2016), VIT University, Chennai, Dec.1-17, 2016.
  27. S.Sophia, Murali, Transient Analysis of an Infinite Series Queue with catastrophes and server failure, International Conference on Mathematical Computer Engineering (ICMCE -2016), VIT University, Chennai, Dec.1-17, 2016.
  28. C.Kalaivani and G.Kalpana, Common fixed point theorem in b-metric space using sub compatible and sequentially continuous maps, National Conference on Emerging Trends in Mathematical Sciences, S.A.Engineering College,Thiruverkadu, 22 Dec 2016.
  29. M.Sundarakannan, Signed cycle Domination of weighted Planar Graphs, International Conference on Theoretical Computer Science and Discrete Mathematics (ICTCSDM – 2016), Kalasalingam University, Krishnankoil, 19-21, Dec 2016.

## **2017**

1. B.Praba and Benazir Obilia. X. A, Clique number and Girth of the Rough Ideal based Rough Edge Cayley Graph, International Conference on Advanced Computing and Communication Systems (ICACCS -2017), Sri Eshwar College of Engineering, Coimbatore, 06– 07, January, 2017
2. B.Praba and G.Gomathi, Covering based Soft Rough Sets and its Applications in Ranking the Subsets, International Conference on Advanced Computing and Communication Systems (ICACCS -2017), Sri Eshwar College of Engineering, Coimbatore, 06– 07, January, 2017
3. S.Yugesh and P.Devaraj , "Shifted average sampling in shift invariant spaces of functions with polynomial growth" in the International Conference on Mathematical Applications in Engineering and Technology during January 27-28, 2017 held at Sacred Heart College, Tirupattur.
4. S.Yugesh and P.Devaraj, "Reconstruction of shifted L-splines from their average samples" in the "International Conference on Discrete and Computational Mathematics" during February 16-18, 2017 held at The Gandhigram Rural Institute - Deemed University, Gandhigram, Dindigul.
5. S.Yugesh and P.Devaraj," Generalized average sampling and reconstruction for wavelet subspaces" at the International Conference on Fourier Analysis and Wavelets during 21-25 March 2017 held at the University of Madras (RIASM), Chennai.
6. M.Shanmugapriya, "Analysis of Heat Transfer of Cu- Wafer Nanofluid flow past a moving wedge", National Conference on Fluid Mechanics, SSN College of Engineering, 27-28, Oct 2017.
7. B.Praba and G.Gomathi, "Covering based generalized fuzzy soft set and its application in decision making", International Conference on Mathematical and Computer Engineering (ICMCE'17), VIT University, Chennai Campus, 3-4 Nov, 2017.
8. S.Gomathi and P.Venugopal, " Frequency Assignment for Mongolian and Torus Graphs using Radio Antipodal Labeling", International Conference on Mathematical and Computer Engineering (ICMCE'17), VIT University, Chennai Campus, 3-4 Nov, 2017
9. N. Padmapriya, N. Jansi Rani and R. Madura Meenakshi, "Comparative Study of application for Diminishing Cells Infinite Array using image multiscale



- decomposition”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
10. Dr. M.Sundarakannan “Signed Cycle Domination in Planar Graphs” Lecture Notes in Computer Science, Vol. 10398. Springer, Cham, pp 409-414, 2017.
  11. T.Revathi and T.M. Rajalaxmi, “Convolution Neural Network based human detection and counting model”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
  12. T. M. Rajalaxmi, Jessy Sujana.G, “Zero P3-forcing in Networks”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
  13. Jane Olive Sharon and T. M. Rajalaxmi, “Profile in Networks”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
  14. K. Jagadeesh Kumar, R. Sundara Rajan and T.M. Rajalaxmi, “Wirelength of Embedding Folded Hypercubes into Recursive Torus”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
  15. Arul Shantrinal, R. Sundara Rajan and T.M. Rajalaxmi, “Wirelength of Embedding Complete r- Partite Graph into Recursive Torus”, International Conference on Mathematical and Computer Engineering (ICMCE’17), VIT University, Chennai Campus, 3-4 Nov, 2017.
  16. T.Revathi and T.M. Rajalaxmi, “Keyword based Journal categorization using deep learning”, 7<sup>th</sup> International Conference on soft computing for problem solving, IIT Bhubaneswar, 23-24 Dec2017
  17. N. Padmapriya, K.Vijayalakshmi, N. Venkateswaran, G.K.Mallieswaran and R.Padmanabhan, ”Characterization of friction stir welding quality using Fractal Features and Logistic Regression classifier”, International Conference on Advances in Material Processing Technologies, VIT chennai 11-14, Dec 2017.
  18. S.Revathi, N.Padmapriya and R.Padmanabhan, “Analytical modeling and Simulation of 0-3 PVDF/PZT composite actuated micropump”, International Conference on Advances in Material Processing Technologies, VIT chennai 11-14, Dec 2017.
  19. M.somasekar , S.Sakthivel Murugan , S.K.Pradeesha and Dr.N. Padmapriya, A Surveyon Fuzzy C-Means with Empirical mode Decomposition for underwater image

enhancement, Proceedings of the 5<sup>th</sup> International Conference on Ship and Offshore Technology ICSOT 2017 December 7-8, 2017, IIT Kharagpur, India

20. B.Praba, G.Deepa, "Bounds of extreme energy of an intuitionistic fuzzy graph", International Conference on Advances in Mathematical Sciences (ICAMS), December 1-3, 2017, Organized by Department of Mathematics, VIT, Vellore.
21. B.Praba, G.Deepa, "Bounds of Energy of the Dominating Intuitionistic Fuzzy Directed Graph", International Conference on Advances in Mathematical Sciences (ICAMS), December 1-3, 2017, Organized by Department of Mathematics, VIT, Vellore.
22. B. Praba, A. Manimaran and V. M. Chandrasekaran "Cozero Divisor Graph of a Commutative Rough Semiring", International Conference on Advances in Mathematical Sciences (ICAMS), December 1-3, 2017, Organized by Department of Mathematics, VIT, Vellore.
23. B. Praba, A. Manimaran and M. Logeshwari, "Domination Number of the Rough Zero Divisor Graph of the Rough Semiring", International Conference on Advances in Mathematical Sciences (ICAMS), December 1-3, 2017, Organized by Department of Mathematics, VIT, Vellore.

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