

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM-603110**  
**MATHEMATICS DEPARTMENT**

**Publications 2018**

1. B.Praba, Saranya.R, Information System with Decision Variables and Rough Finite State Automata, Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, No. 1, pp. 364-373, Jan 2018 (Scopus).
2. B.Praba, Gomathi.G, An Application of Twin Soft Set and Twin Covering based approximation Spaces, International Journal of Pure and Applied Mathematics, Vol.119, No. 11, pp.535-543, March 2018 (Scopus).
3. B.Praba, Benazir Obilia.X.A, Maximal Spanning Tree in an Edge Rough Graph, International Journal of Pure and Applied Mathematics, Vol.119 ,No. 11, pp. 545-553, March 2018 (Scopus).
4. B.Praba, G.Gomathi, Vijaya Mani and M.Vaagesh, An application of Multi-layered fuzzy attributed rough set in studying organisational culture system, Int. Journal of Mathematics in Operational Research, Vol 13, No.3, 2018 (Scopus). (No Pay)
5. R.Jothiraj, S.Jayakumar and P.Venugopal, Open Shop Scheduling in a Circular Coloring and Dominator Coloring in a Circular Arc Graphs, International Journal of Pure and Applied Mathematics, Volume 118, No. 10, pp.185-193, Feb 2018(Scopus).
6. Venugopal P, Padmapriya N, Thilshath A, Equitable Colouring of Certain Double Vertex Graphs, International Journal of Pure and Applied Mathematics, Volume 119, No. 11, pp. 147-154, March 2018(Scopus).
7. Beaula C, Venugopal P, Padmapriya N, Graph Distance of Vertices in Double Vertex Graphs International Journal of Pure and Applied Mathematics, Volume 119, No. 11, pp. 343-351, March 2018(Scopus).
8. R.Jothiraj, S.Jayakumar and P.Venugopal, Cyclic open shop scheduling in a circular coloring and paired neighbour connected dominator coloring of circular arc graph, Journal of Advanced Research Dynamical and Control systems, Vol. 10, No.5, pp.79-83, April 2018(Scopus).
9. S. Sophia and Murali T, Transient Analysis of an Infinite Server Queue with Catastrophes and Server Failures, International Journal of Pure and Applied Mathematics, Volume 119, No. 11, 253-261, 2018(Scopus).
10. Saravanan, M, Sujatha, R. , Sundareswaran, R , Sahoo, Sankar , Pal, Madhumangal , Concept of integrity and its value of fuzzy graphs, Journal of Intelligent & Fuzzy Systems, vol. 34, no. 4, pp. 2429-2439, 2018. (T)
11. M.Saravanan, R.Sujatha, R.Sundareswaran and Muthuselvan, Applications of domination integrity of graphs in PMU placement in electric power networks, Turkish journal of electrical engineering and computer sciences, Vol, 26, 2066-2076, 2018 (T).(No Pay)

12. R.Sujatha, V.Sharmila and S.Narasimman, Fuzzy hidden Markov chain with observation dependent states, Life cycle Reliability and safety Engineering, Dec 2018(N)(No Pay)
13. Deepa, P.; Srinivasan, P.; Sundarakannan, M. Local coloring for the Mycielskian of a graph. *Util. Math.* Vol.106, pp.301–314, April, 2018 (T).
14. SundaraRajan R., T. M. Rajalaxmi, Jia-BaoLiuc G. Sethuraman, Wirelength of embedding complete multipartite graphs into certain graphs, *Discrete Applied Mathematics*, Available online 28 June 2018 (T).
15. Deepa.G, Praba.B, Manimaran.A, Chandrasekaran.V.M and Rajakumar. K, *Medical Diagnosis using Intuitionistic Fuzzy set in Terms Shortest Distance Measure*, Research Journal of Pharmacy and Technology, Vol. 11, No.1, pp.949-952, April 2018 (Scopus).
16. M.Shanmugapriya and P.Sangeetha, Entropy generation analysis of Cu-water nanofluid flow over a moving wedge, *Desalination of water treatment*, Vol.121, No.14-21, July 2018 (T)(No Pay)
17. M.Shanmugapriya, Analysis of Heat Transfer of Cu-water Nanofluid flow past a moving wedge, *Journal of Informatics and Mathematical sciences*, Vol.10, Nos.1 &2 , pp.287-296, 2018. (T)
18. P.Sangeetha, M.Shanmugapriya, A.Shrinidhi and K.Vaishnavi, Analytical Study on the Bond Behaviour between steel and concrete using comsol, *Research Journal of Pharmaceutical , Biological and Chemical Sciences*, Vol.9, Issue 4, Pp.1522-1528, 2018 (T)
19. M. Shanmugapriya and M. Elayarani, “MHD stagnation point flow over a stretching sheet in a porous medium with heat generation”, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, Vol. 8, Oct 2018, pp. 568-576. (Scopus)
20. M. Shanmugapriya, “Heat and Mass transfer analysis of MHD stagnation point flow past an unsteady stretching sheet”, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, Vol. 8, Oct 2018, pp. 577-584. (Scopus)
21. A. Manimaran, B. Praba, V. M. Chandrasekaran, Karan Agrawal and AkankshaMiharia, *Skin disease analysis using Intuitionistic Fuzzy Set*, Research Journal of Pharmacy and Technology, Vol. 11, No.1 pp.79 – 82, April 2018. (Scopus)
22. G. kalpana and C. kalaivani, "common fixed point theorems in  $c^*$ -algebra-valued s-metric spaces" *international journal of pure and applied mathematics*, volume 119, no. 15, pp.367-375, April 2018. (Scopus)
23. C.Kalaivani and G. kalpana, Fixed point theorems in  $C^*$  - algebra –valued s- metric spaces with some applications, *U.P.B. Sci. Bull., series A*, Vol.80, Iss 3, 2018. (Scopus & T)
24. G.Kalpana, Z.SumaiyaTasneem, Contraction mapping in hexagonal cone b-metric spaces over Banach algebras and related fixed point theorems, *Journal of Analysis*, July, 2018.

25. D. Nagarajan, M.Lathamaheswari, R.Sujatha, J.Kavikumar, Edge Detection on DICOM Image using Triangular Norms in Type-2 Fuzzy, International Journal of Advanced Computer Science and Applications, Vol. 9, No.11, 462-475, 2018. (Indexed in Scopus & Thomson Reuters)(Dec.)
26. Sujatha,R, Sharmila,V, Naramimman,S, Fuzzy Hidden Markov Chain with States Depending on Observation for Web Applications, Journal Of Multiple-Valued Logic And Soft Computing,Vol.30, No.4-6, 399-417, 2018.( Indexed in Scopus & Thomson Reuters) (Dec.)(No Pay)
27. R. Sumathi, R. Sujatha, R. Sundareswaran, SankarSahoo, Madhumangal Pal and Anita Pal, Nodes in fuzzy block with application, Journal of Intelligent & Fuzzy Systems 35 , 4785–4793, 2018. DOI:10.3233/JIFS-18347, (Indexed in Scopus & Thomson Reuters) (Nov.)
28. S. Vijayan, R. Sundareswaran, I. Jayakaranamalraj, R. Sujatha, Graph Theoretical Approach for the Selection of Welding Process, International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, Special Issue 7, 532-541, Oct 2018.(Indexed in Scopus)
29. B. Praba, G. Deepa, V. M. Chandrasekaran, Lower and upper bound of the Laplacian energy with real and complex roots of an intuitionistic fuzzy directed graph, Int. J. Applied Systemic Studies, Vol. 8, No. 3, 2018. (Scopus) (No Pay)++
30. B.Praba, Benazir Obilia.X.A, Domination Number of Rough Ideal based Rough Edge Cayley Graph, International Journal of Engineering & Technology, 7 (4.10) (2018), 124-126. (Scopus)
31. B.Praba, Benazir Obilia.X.A, Rainbow Connection Number and Chromatic Index of Rough Ideal based Rough Edge Cayley Graph, International Journal of Engineering & Technology, 7 (3) (2018), 1926-1930. (Scopus)
32. A.Manimaran, B. Praba, G. Deepa, V. M. Chandrasekaran, Krishnamoorthy Venkatesan, Diabetes Disease Analysis Using Rough Soft Set, International Journal of Engineering and Technology(UAE) , 7(4) (2018). (July) (Scopus)
33. S.Vanitha, M/G/1 feedback queue with two stage heterogeneous service and deterministic server vacations, International Journal of Applied Engineering Research, Vol. 13, No. 22, pp. 15899 - 15907 (2018) (N)
34. S.Revathi, N.Padmapriyaand R.Padmanabhan, “A Design Analysis of piezoelectric-polymer composite based valveless micropump”, International Journal of Modelling and Simulation, Pages 110-124, 2018 (scopus).

35. I. JayakaranAmalraj, G. Alexander Raymand , Rheodynamic Lubrication of an Externally Pressurized Converging circular Thrust Bearing using Bingham Lubricant, Journal of Informatics and Mathematical science, Vol 10, No 1-2 (2018) (T)
36. S. Sophia, Transient analysis of a single server queue with chain sequence rates subject to catastrophes, failures and repairs, International Journal of Pure and Applied Mathematics, Vol. 119 No. 15 2018, 1969-1988. (Scopus)
37. S. Sophia, Stationary Analysis of an M/Ek/1 Driven Fluid Queue Subject to Exponential Timer, International Journal of Pure and Applied Mathematics, Volume 119 No. 15 2018, 1869-1880 (Scopus)
38. R. Sujatha, D. Nagarajan, P. Saravanan, J.Kavikumar , Optimizing the Behaviour of Web Users through Expectation Maximization Algorithm and Mixture of Normal Distributions, International Journal of Advanced Computer Science and Applications, Vol. 9, No. 12, 2018, pp.179-181 (published in Dec.2018) (Scopus & TR)
39. R.Jothiraj, S.Jayakumar and P.Venugopal, Paired Neighbor Connected Dominator coloring to open shop scheduling, International Journal of Pure and Applied Mathematics, Vol.120, No.8, pp.31-39, 2018
40. S.Yugesh and P.Devaraj, Generalized average sampling and reconstruction for wavelet subspaces, The Journal of Analysis, 2018, 26 (2), 333-342.