

DEPARTMENT OF MATHEMATICS

List of Publications

JULY 2020 – JUNE 2021

- Dr. P. Venugopal, Published a paper titled "Computation of Degree-Based Topological Descriptors Using M-Polynomial for Coronoid Systems" in Polycyclic Aromatic Compounds.
- Dr. B. Praba, A. Manimaran, G. Deepa, and I. Muchtadi-Alamsyah" , Vol 9, No.9. Advances in mathematics scientific journal, aug 2020.
- R. Sundara Rajan, Thomas Kalinowski, Sandi Klavžar, Hamid Mokhtar, T.M. Rajalaxmi, "Lower bounds for dilation, wirelength, and edge congestion of embedding graphs into hypercubes", The Journal of Supercomputing, 10.1007/s11227-020-03420-w, 1- 16, September 2020, Impact Factor: 2.469, Clarivate Analytics.
- Jessy Sujana, T. M. Rajalaxmi, Forcing sets in triangular grid networks, Procedia Computer Science, 172 and 159 - 164, 2020, Scopus, 0.34, 10.1016/j.procs.2020.05.024
- Jane Olive Sharon, T. M. Rajalaxmi, Transmission in Certain Trees, Procedia Computer Science, 172, 193-198,2020,
- S. Sampath Kumar, R. Sundareswaran and M. Sundarakannan, On Zagreb Indices of Double Vertex Graphs, TWMS Journal of Applied and Engineering Mathematics, 10(4) and 1096-1104, 2020, Clarivate, 0.16,
- M. Rajalaxmi , N. Parthiban , Joe Ryan , A. Arul Shantrinal , R. Sundara Rajan, A linear time algorithm for embedding chord graphs into certain necklace and windmill graphs, The Journal of Supercomputing , 3 and 50 - 56, 2020, Other, ,
- M. Shanmugapriya, Radiative Heat Transfer of Magnetic Nanofluid Flow Past a Porous Inclined Plate: A Mathematical Model, Lecture Notes in Mechanical Engineering,1085-1098,2020
- D. Seenivasan, M. Elayarani, and M. Shanmugapriya, Heat and Mass Transfer Analysis of Al₂O₃-Water and Cu-Water Nanofluids Over a Stretching Surface with Thermo-diffusion and Diffusion-Thermo Effects Using Artificial Neural Network, Lecture Notes in Mechanical Engineering, 417-434, 2020(online), Scopus, 0.37, https://doi.org/10.1007/978-981-15-4488-0_36
- P. Sangeetha, M. Shanmugapriya, Aaditya Jagadeesh, and K. Deveshwar, Numerical and Experimental Evaluation on the Behaviour of Cold-Formed Steel Box Struts and Prediction of Experimental Results Using Artificial Neural Networks, Lecture Notes in Civil Engineering , 349-357, 2020 (online), Scopus, 0.13, https://doi.org/10.1007/978-981-15-5101-7_33
- M. Boopathi, R. Sujatha, C. Senthil Kumar, A tool for automatic generation of dd-graph using adjacency matrix for software testing, Life Cycle Reliability and Safety Engineering, Vol 9, No. 4,379–387, 2020
- L.Swaanika, M.Tharun Vijay, R. Sujatha, D.Nagarajan, Fuzzy Lagrange Interpolation Method for Cisplatin Drug Release, AIP Conference Proceedings 2282, 020012 , 2020, Clarivate, 0.4, <https://doi.org/10.1063/5.0028314>

- Sujatha, G.Kuppuswami, D.Nagarajan, Markov Chain Long Run Probabilities for Estimation of Traffic Flow, AIP Conference Proceedings, 2282, 020005, 2020, Clarivate, 0.4, <https://doi.org/10.1063/5.0028464>
- C. Sankar, R. Sujatha, D. Nagarajan, Topsis By Using Plithogenic Set In Covid- 19 Decision Making, International Journal of Neutrosophic Science, Vol. 10, No. 2, PP.116-125, 2020, Other, , Doi :10.5281/zenodo.4011772
- Kins Yenoke, Arputha Jose T, Venugopal P, On The Radio Antipodal Mean Number of Certain Types of Ladder Graphs, International Journal of Innovative Research in Science, Engineering and Technology(IJIRSET), 9(6), 4607-4614, 2020, No, ,
- C. Kalaivani, S. Swathisundari, Florentin Smarandache and Saied Jafari, On Product of Smooth Neutrosophic topological spaces, Symmetry, Vol. 12 (9) P.No: 1-20, 2020, Clarivate, 2.645, doi.org/10.3390/sym12091557
- S. Mullai Venthan and I. Jayakaran Amalraj, Numerical Investigation of Bingham Fluid Flow in the Entrance Region of Rotating Annuli, Trends in Mechanical and Biomedical Design, pp. 499-518, 2020, Scopus, , https://doi.org/10.1007/978-981-15-4488-0_42
- G. Alexander Raymand and I. Jayakaran Amalraj, Analysis of Externally Pressurized Thrust Bearing with inclination angle using Yield stress fluids, Trends in Mechanical and Biomedical Design, pp 485-498, 2020, Scopus, , https://doi.org/10.1007/978-981-15-4488-0_41
- G. Kirithiga Nandini, R. Sundara Rajan, A. Arul Shantrinal, T. M. Rajalaxmi, Indra Rajasingh and Krishnan Balasubramanian, “Topological and Thermodynamic Entropy Measures for COVID - 19 Pandemic through Graph Theory”, Symmetry, 12(12), 1992, 2020.
- G. Balaraman, S. Sampath Kumar, R. Sundareswaran, “Geodetic Domination Integrity in Graphs”, TWMS J. App. and Eng. Math., 11, Special Issue, pp. 258- 267, 2021.
- P. Sangeetha, M. Shanmugapriya, “Prediction of Mechanical Strength of Polypropylene Fibre Reinforced Concrete using Artificial Neural Network”, Građevinski Materijali I Konstrukcije-Building Materials and Structures, 63 (4), 79-86, 2020.
- M. Shanmugapriya and P. Sangeetha, “Neural Network Modeling of Convection Heattransfer Coefficient for the Casson Nanofluid”, TWMS J. App. and Eng. Math., 11, Special Issue, pp. 248-257, 2021.
- C Beaula, P Venugopal, “Cryptosystem using double vertex graph”, Indian Journal of Science and Technology, 13(44), 4483-4489, 2020.
- P Sangeetha, M Shanmugapriya, R Sundareswaran, K Sowmya and S Srinidhi, “Study of the Concrete Production Process -A graph theoretic approach”, Journal of Physics: Conference Series, 1706 & 012115, 2020.
- P Sangeetha & M Shanmugapriya, “Artificial neural network applications in fiber reinforced concrete”, Journal of Physics: Conference Series, 1706 & 012113, 2020.
- M.Elayarani, M.Shanmugapriya, P.Senthil Kumar, Intensification of heat and mass transfer process in MHD carreau nanofluid flow containing gyrotactic microorganisms, , Chemical Engineering and Processing - Process Intensification, 160, March 2021, 108299, 2021.
- Sumaiya Tasneem Z, Kalpana Gopalan, and Thabet Abdeljawad, A Different Approach to Fixed Point Theorems on Triple Controlled Metric Type Spaces with a Numerical Experiment, Dynamic Systems and Applications, 30 (1) and 111-130, 2021.

- Kalaivani Chandran, Kalpana Gopalan, Sumaiya Tasneem Zubair and Thabet Abdeljawad, A fixed point approach to the solution of singular fractional differential equations with integral boundary conditions, *Advances in Difference Equations*, Vol. 56, 2021.
- S. Vanitha, M/G1 Queue with Compulsory Vacation and Deterministic Repair, *International Journal of Management*, Volume 11, Issue 11, Pp. 995 - 1002, 2020.
- S. Vanitha, Analysis OF M//1 Queue with Optional Services and Deterministic Repair, *International Journal of Advanced Research In Engineering And Technology*, Volume 11, Issue 11, Pp.1208 - 1217, 2020.
- S. Vanitha, M/D/1 Queue with Compulsory Vacation and Random Breakdowns, *International Journal of Advanced Research in Engineering And Technology*, Volume 11, Issue 12, Pp. 560 - 567, 2020. \
- S. Vanitha, M/G/1 Queue with Compulsory Vacation and Three Phase Repairs, *International Journal of Management*, Volume 11, Issue 12, Pp. 2010 - 2019, 2020.
- Dr. S. Sophia and B.Muthu Deepika, Stationary Solution of A Fluid Queue Driven By A Queue With Chain Sequence Rates And Controlled Input, *Studia Scientiarum Mathematicarum Hungarica* , 57(4) and 552-565, 2020, Clarivate, 0.504, DOI: 10.1556/012.2020.57.4.1481, 31-12-2020.
- Julietraja K., Dr. Venugopal P., Prabhu S., Deepa S. and Muhammad Kamran Siddiqui, Molecular Structural Descriptors of Donut Benzenoid Systems, *Polycyclic Aromatic Compounds*, 1-27, 2021, Clarivate, 1.894, 10.1080/10406638.2021.1885456, 22-02-2021.
- Konsalraj Julietraja, Dr. Padmanabhan Venugopal, Savari Prabhu, Arumugam Krishnan Arulmozhi and Muhammad Kamran Siddiqui, Structural Analysis of Three Types of PAHs using Entropy Measures, *Polycyclic Aromatic Compounds*, 1- 31, 2021, Clarivate, 1.894, 10.1080/10406638.2021.1884101, 09-02-2021.
- Vasu, R. Jagadeesh, and Dr. R. Sundareswaran, Vulnerability Parameters in Honeycomb Networks, *Advances in Mathematics: Scientific Journal*, 10, no.1, 679–686, 2021, Scopus, DOI: <https://doi.org/10.37418/amsj.10.1.69>, 01-02-2021.
- Beaula C, Dr. Venugopal P, Encryption Using Double Vertex Graph and Matrices, *Solid State Technology*, 64(2) and 2486-2493, Scopus, 2021.
- R. Sundara Rajan, K. Jagadeesh Kumar, A. Arul Shantrinal, T. M. Rajalaxmi, Indra Rajasingh, Krishnan Balasubramanian, Biochemical and phylogenetic networks-1: hypertrees and corona products, *Journal of Mathematical Chemistry*, Vol. 59, pp. 676 – 698, Clarivate, Impact Factor: 1.795, 2021, DOI: <https://doi.org/10.1007/s10910-020-01194-3>, 01-03-2021.
- R. Sundara Rajan, A. Arul Shantrinal, K. Jagadeesh Kumar, T. M. Rajalaxmi, Indra Rajasingh, Krishnan Balasubramanian, Biochemical and phylogenetic networks-II: X-trees and phylogenetic trees, *Journal of Mathematical Chemistry*, Vol. 59, pp. 699 – 718, Clarivate, Impact Factor: 1.795, 2021, DOI: <https://doi.org/10.1007/s10910-020-01195-2>, 01-03-2021.
- Sumaiya Tasneem Zubair, Kalpana Gopalan, Thabet Abdeljawad, Controlled b-Branciari Metric Type Spaces and Related Fixed Point Theorems with Applications, *Filomat*, Vol. 34 (13), pp. 4253 – 4269, Clarivate, 2021.
- J. Sivakumar, A. Wilson Baskar, R. Sundareswaran, P. Nataraj, and V. Swaminathan, Outer Connected Resolving Sets in A Graph, *Advances in Mathematics: Scientific Journal*, Vol. 10 (3), pp. 1367–1376, 2021, Scopus, <https://doi.org/10.37418/amsj.10.3.25>, 19-03-2021.

- P. Sangeetha and M. Shanmugapriya, Modeling and prediction of fatigue life of brass and EN24 steel using soft computing tool, *Materials Today: Proceedings*, Vol. 38 (5), pp. 2912–2918, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.09.241>
- M. Shanmugapriya, P. Sangeetha and Bapuji Pullepu, Evaluation of entropy generation with thermal radiation on MHD Carreau fluid stream past a wedge, *Materials Today: Proceedings*, Vol. 38 (5), pp. 3283-3290, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.10.020>
- S.Gopi Krishna and M.Shanmugapriya, Inquiry of MHD bioconvective non-newtonian nanofluid flow over a moving wedge using HPM, *Materials Today: Proceedings*, Vol. 38 (5), 3297-3305, 2021, Scopus, SCImago Journal Rank (SJR): 0.304, <https://doi.org/10.1016/j.matpr.2020.10.028>
- B. Praba and R. Saranya, Rough Fuzzy Graph Cellular Automaton, *Advances in Mathematics: Scientific Journal*, Vol. 10 (1), pp. 1591 – 1602, 2021, Scopus, 24-03-2021
- R. Sriganesh, M. Pandikumar and R. Sundareswaran, FPGA based Real Time Simulation of Power Converters, *IEEE Xplore*, 2021 7th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2021, pp. 370-376, DOI: 10.1109/ICEES51510.2021.9383735
- Gomathi. S and Venugopal. P, Channel Assignment of Triangular Grid and Ladder related Graphs using Radio Antipodal Labeling, *Solid State Technology*, Vol. 64 (2), pp. 3897-3908, 2021 Scopus, SCImago Journal Rank (SJR): 0.101.
- .Sangeetha, R.Sundareswaran, M.Shanmugapriya, S.Srinidhi, K.Sowmya Influential nodes in planar trusses and meshes using centrality measures, *Materials Today : Proceedings Elsevier*, Volume 42, Part 2, Pages 932-939, 2021, Scopus, <https://doi.org/10.1016/j.matpr.2020.11.848>.
- Harisaran G , Shiva G , Sundareswaran R and Shanmugapriya M, Connected Domination Integrity in graphs, *Indian Journal of Natural Sciences*, Vol.12 / Issue 65 / 1-6, Apr-21, Clarivate, Impact factor: 1.628, 23-04-2021.
- Arputha Jose, A Daniel Raj, P Venugopal, M Giridaran, Radio antipodal mean number of quadrilateral Snake families, *Indian Journal of Science and Technology*, 14(13), 1071-1080, 2021, Clarivate, 10.17485/IJST/v14i13.295, 24-04-2021
- Jane Olive Sharon, T.M. Rajalaxmi, Sandi KlavÅ¼ar, R. Sundara Rajan, Indra Rajasingh, Transmission in H-naphthalenic nanosheet, *Applied Mathematics and Computation*, 406 (126285), 2021, Clarivate, Impact factor: 3.472, <https://doi.org/10.1016/j.amc.2021.126285>
- N. Venkateswaran, W. Jinans & N. Padmapriya , Deep learning based robust forward collision warning system with range prediction, *Multimedia Tools and Applications*, 80, 20849–20867, 2021, Clarivate, 2.1, 10.1007/s11042-021-10703-8, 01-06-2021.
- S. Yugesh and P.Devaraj, Local Weighted Average Sampling Over Multiply Generated Spline Spaces of Polynomial Growth, *Springer Proceedings in Mathematics & Statistics*, 344 & 573-580, 2021, Scopus, 0.36, 10.1007/978-981-33-4646-8_45.

- G Kalpana and Z Sumaiya Tasneem, On Fixed Points in the Setting of C^* -algebra-valued Controlled Fc-Metric Type Spaces, Springer Proceedings in Mathematics & Statistics, 344, 517-527, 2021, Scopus, 06-05-2021.
- B. Praba, Gomathi.G, An Analysis of Organizational Behaviour using k -Approximation Spaces, Turkish Journal of Computer and Mathematics Education, Vol. 12, No. 11, 2021, Scopus.
- Z Sumaiya Tasneem and G Kalpana, Existence of Fixed Point Results in C^* -algebra-valued Triple Controlled Metric Type Spaces, Springer Proceedings in Mathematics & Statistics, 344, 499-516, 2021, Scopus, 06-05-2021.
- B.Praba, M. Logeshwari, Clique Number and Girth of the Rough Co-zero Divisor Graph, Turkish Journal of Computer and Mathematics Education, Vol. 12, No. 11, 2021, Scopus.
- B.Praba, R.Saranya, A study of spreading rate of COVID19 using non-homogeneous rough graph cellular automaton, Indian Journal of Natural Sciences, Vol.12, Issue 66, 31117-31126, June 2021, Clarivate.
- B.Praba, R.Saranya, Non-homogeneous rough finite state automaton, Registration geintec gastao inovacao tecnologias, Vol.11, No.2, pp 629-642, June 2021, Clarivate.
- P. Deepa, P. Srinivasan and M. Sundarakannan, Local edge coloring of graphs, AKCE International Journal of Graphs and Combinatorics, 18:1, 29-32, 2021, Clarivate 10.1080/09728600.2021.1915722, 25-06-2021.
- Revathi, T., Rajalaxmi, T. M., Sundara Rajan, R., Freire, Wilhelm Passarella, Deep quaternion Fourier transform for salient object detection, Journal of intelligent and fuzzy systems, Volume 40(6), pp. 11331-11340, 2021, Clarivate, 1.851, 10.3233/JIFS-202502, 21-06-2021.
- R. Sriganesh, R. Sundareswaran, M. Shanmugapriya and M. Pandikumar, A Study of power plant selection process – A graph theoretic approach, Journal of Physics: Conference Series, 1921 (2021) 012081, 2021, Scopus, 0.599, doi:10.1088/1742-6596/1921/1/012081.
- S, Sophia and B. Muthu Deepika, Transient Analysis of a Single Server Queue with Encouraged Arrivals and Catastrophes Encouraged, Journal of Huazhong University of Science and Technology, 50 (6), 2021, Scopus, 1.35, , 20-06-2021.
- S. Sampath Kumar and K. Sankar, Large sets of Wrapped Hamilton Cycle Decompositions of Blown up cycles $C_m[K_n]$, Indian Journal of Natural Sciences, Volume 12, Issue 65, 2021, Clarivate, 1.733, 30-04-2021.

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- Arul Shantrinal, Sandi Klavžar, T. M. Rajalaxmi, and R. Sundara Rajan, An algorithm for embedding Turán graphs into incomplete hypercubes with minimum wirelength, Journal of Graph Algorithms and Applications, Vol. 25, no. 1, pp. 367-381, 2021, 0.39, 10.7155/jgaa.00562, Scopus.

- K. Jagadeesh Kumar, Sandy Klavzar, R. Sundara Rajan, Indra Rajasingh, T. M. Rajalaxmi, An asymptotic relation between the wirelength of an embedding and the Wiener index, *Discrete Mathematics Letters*, 7 and 74 - 78, 2021, 10.47443/dml.2021.0063, Scopus.
- V. Vembarasan, Passivity based on synchronization of T-S fuzzy energy resources system, *Journal of Mathematics and Computer Science-JMCS*, 25 (3) 269--283, 2022, 0.22, 10.22436/jmcs.025.03.06, 03-07-2021, Clarivate, Scopus.
- P. Nataraj, R. Sundareswaran, V. Swaminathan, Complementary equitably totally disconnected equitable domination in graphs, *Discrete Mathematics, Algorithms and Applications*, 13(4), 2021, 0.307, 10.1142/S1793830921500439, 30-11-2020, Clarivate, Scopus.
- Jessy Sujana G., T.M. Rajalaxmi, Indra Rajasingh and R. Sundara Rajan, Edge Forcing in Butterfly Networks, *Fundamenta Informatica*, 182 (1) and 1 - 15, 2021, 1.333, 10.3233/FI-2021-2060, Clarivate, Scopus.
- Shanmugapriya , R. Sundareswaran , and P. Senthil Kumar , Heat and Mass Transfer Enhancement of MHD Hybrid Nanofluid Flow in the Presence of Activation Energy, *International Journal of Chemical Engineering*, 1-12, 2021, 2.257, <https://doi.org/10.1155/2021/9473226>, 25-08-2021, Clarivate, Scopus.
- P. Nataraj,R. Sundareswaran , V. Swaminathan, Equitably strong non-split equitable domination in graphs, *Proyecciones* , 40(4),989-1000, 2021, 0.226, <https://doi.org/10.22199/issn.0717-6279-4497>, 10-08-2021, Scopus
- B.Praba, M. Logeshwari, Sentiment analysis using Rough Co-zero Divisor Graph , *Journal of Mathematical and Computational Science*, vol. 11. No. 6 and 7372-7383, 2021, 0.22, 14-09-2021, Scopus.
- B.Praba, M. Logeshwari, Wiener Index of Rough Co-Zero Divisor Graph O'of A Rough Semiring, *Dynamic Systems and Applications* , vol. 30 No. 9 and 1519 – 1544, 2021, 0.362, Clarivate.
- Sumaiya Tasneem Z , Kalpana Gopalan, Thabet Abdeljawad, New Fixed Point Results for Generalized Θ -Contraction in Extended **Gb**-Metric Spaces with an Application, *Gazi University Journal of Science*, 34(3), 808-819, 2021, 10.35378/gujs.712142, Clarivate
- R. Sundara Rajan, A. Arul Shantrinal, T.M. Rajalaxmi, Jianxi Fan, Weibei Fan, Embedding complete multipartite graphs into Cartesian product of paths and cycles, *Electronic Journal of Graph Theory and Applications*, 9 (2) and 507 - 525, 2021, 10.5614/ejgta.2021.9.2.21, Clarivate, Scopus.
- Sumaiya Tasneem Zubair, Kalpana Gopalan, Thabet Abdeljawad, Bahaaeldin Abdalla , On Fuzzy Extended Hexagonal b-Metric Spaces with Applications to Nonlinear Fractional Differential Equations, *Symmetry*, 13, 2032, 2021,
- Kalaivani Chandran, Kalpana Gopalan, Sumaiya Tasneem Zubair and Thabet Abdeljawad, A fixed point approach to the solution of singular fractional differential equations with integral boundary conditions, *Advances in Difference Equations*, Vol. 56, 2021. Clarivate, Scopus.
- B. Praba, S. Sophia, Laasya Subramanyam, Sasya Subramanyam, Shamitha Dev and Shruthi Arun, Prediction of Indian GDP using Grey Forecast Model, *Indian Journal of Natural Sciences*, 12(69) and 37116-37125, 2021.
- V. Swaminathan,R. Sundareswaran R. Lakshmanaraj,P. Nataraj,L. Muthusubramanian, Equitable fair domination in graphs, *Discrete Mathematics, Algorithms and Applications*, Vol. 13, No. 6, 0.8, 10.1142, 2021.

- S Vanitha, An M/G/1 Queue With Second Optional Service and Deterministic Repair Times, International Journal of Natural Sciences, Vol.12, Issue 69, pp 36411 - 36423, 2021, Clarivate.
- Devaraj Ponnaian, Ankush Kumar Garg and Yugesh Shanmugam, Average and Convolution Sampling over Shift-Invariant Spaces, Complex Analysis and Operator Theory, 16 and 20, 2020, 0.843, 10.1007/s11785-021-01165-9, 30.01.2022, Clarivate and Scopus.
- Kalpana Gopalan, Sumaiya Tasneem Zubair, Thabet Abdeljawad and Nabil Mlaiki, New Fixed Point Theorem on Triple Controlled Metric Type Spaces with Applications to Volterra - Fredholm Integro-Dynamic Equations Axioms, Axioms 2022, 11, 19. Impact Factor 2.11, 02-01-2022, Clarivate.
- R.V. Jaikumar, R. Sundareswaran, G. Balaraman , P K Kishore Kumar, Said Broumi, Vulnerability Parameters in Neutrosophic Graphs, Neutrosophic Sets and Systems, Vol. 48, 109-121, 06.02.2022, Scopus.
- A Daniel Raj, P Venugopal , N Padmapriya, Identification of Proper and Improper Signatures Using Graph Theory Techniques, Indian Journal Of Science And Technology, 15(6): 227-236., 2022, 1.26, doi.org/10.17485/IJST/v15i6.1913, 16-02-2022, Clarivate.
- A. Anirudh , R. Aravind Kannan , R. Sriganesh , R. Sundareswaran, S. Sampath Kumar , M. Shanmugapriya, Said Broumi, Reliability Measures in Neutrosophic Soft Graphs, Neutrosophic Sets and Systems, 49, 2022, 22.4.2022, Scopus.
- Sumaiya Tasneem Zubair, Kalpana Gopalan, Thabet Abdeljawad, Nabil Mlaiki, Novel fixed point technique to coupled system of nonlinear implicit fractional differential equations in complex valued fuzzy rectangular b-metric spaces, AIMS Mathematics, 7(6), 10867-10891, 2022, 1.427, 01-04-2022, Clarivate, Scopus.
- S.Vanitha, M/G/1 Queue with Two Types of Service and Multiple Server Vacation, Indian Journal of Natural Sciences , Vol.13 / Issue 71 , pp 40187 - 40197, April - 2022, Clarivate.
- Shwetha Srikanth, S.Sneha & N.Padmapriya, A year into the pandemic: A mathematical model and study of COVID-19 in India, Indian Journal of Public Health Research & Development, 13(1) : pp 343-353, 2022, 01-04.2022, Scopus.
- P. Sangeetha, M. Shanmugapriya, R. Manjula, Aparna P. Vijay, K. Sooraj, Study the effect of intermediate and closer stiffener on the behaviour of the cold - formed steel lipped channel section under axial compression, Journal of Materials and Engineering Structures, 9, 49 - 60, 2022, 0.565, Clarivate.
- Praba B, Pooja S and Nethraa Sivakumar, Attribute based Double Bounded Rough Neutrosophic Sets in Facial Expression Detection, Neutrosophic Sets and Systems, Vol. 49 AND pp. 324-340, 2022, 2.429, Clarivate, Scopus.
- S. Gopi Krishnaa, M. Shanmugapriya, P. Senthil Kumar, Prediction of bio-heat and mass transportation in radiative MHD Walter-B nanofluid using MANFIS model, Mathematics and Computers in Simulation, 201, 49-67, 2022, 2.463, <https://doi.org/10.1016/j.matcom.2022.05.002>, 14.05.2022, Clarivate and Scopus.
- R Sumathi, R. Sujatha, R. Sundareswaran, Best Fuzzy Graph with Application in Fuzzy Social Network, AIP Conf. Proc., 2393, 020156, 2022, doi.org/10.1063/5.0074198, 19-05-2022, Scopus.
- Kalpana Gopalan, Sumaiya Tasneem Zubair and Thabet Abdeljawad, New Fixed Point Theorems In Operator Valued Extended Hexagonal B-Metric Spaces, Palestine Journal of Mathematics, 11 (3), 48 - 56, 2022, Scopus.

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- P. Sangeetha, M. Shanmugapriya, K. Santhosh Saravanan, P. Prabhakaran, V. Shashankar, Mechanical properties of concrete with seashell waste as partial replacement of cement and aggregate, *Materials Today: Proceedings*, 61, 320-326, 2022, 25-06-2022, Scopus.
- Said Broumi, R. Sundareswaran, M. Shanmugapriya, Assia Bakali, Mohamed Talea, Theory and Applications of Fermatean Neutrosophic Graphs, *Neutrosophic Sets and Systems*, 50, 248-285, 2022, 11-06-2022, Scopus.
- R. Sundareswaran , V. Mahesh, Said Broumi , R. Dhanush Babu , M Vahini, Diabetic Neuropathy Severity Assessment: A Neutrosophic approach, *International Journal of Neutrosophic Science (IJNS)*, Vol. 18, No. 04, PP. 291-300, 2022, 10.54216/IJNS.180424, 24-07-2022.
- A , Sundarakannan M, Lakshminarayanan G , Seok-Bum Ko, FRDS: An efficient unique on-Chip interconnection network architecture, *Integration, the VLSI Journal*, 87, 90-103, 2022, 1.345, <https://doi.org/10.1016/j.vlsi.2022.06.014>, 05-07-2022, Clarivate and Scopus.
- DR.B.Praba & R.Saranya, Fuzzy Graph Cellular Automaton and Its Applications in Parking Recommendations, *New Mathematics and Natural Computation*, Vol. 18(1), 147-162, 2022, 1.237, 10.1142/S1793005722500089, Clarivate and Scopus.
- G. Kirithiga Nandini, R. Sundara Rajan, T.M. Rajalaxmi, A. Arul Shantrinal, K.S.K. Sharifah and H. Roslan, Wiener Index via Wirelength of an Embedding, *Discrete Mathematics, Algorithms and Applications*, Vol. 14 (1), 1 - 19, 2022, 0.4, <https://doi.org/10.1142/S1793830921500877>, Clarivate and Scopus.
- R. Sundareswaran, P. Sangeetha, M. Shanmugapriya, M. Thaga Sheriff, M. Benasir, A. Shri Thrisha, R. Sathyaprakash, Assessment of structural cracks in buildings using single-valued neutrosophic DEMATEL model, *Materials Today: Proceedings*, 65, 1078 - 1085, 2022, <https://doi.org/10.1016/j.matpr.2022.04.156>, 22-08-2022.
- R. Sundareswaran, V. Mahesh , Said Broumi, R. Dhanush Babu , M Vahini, Diabetic Neuropathy Severity Assessment: A Neutrosophic approach, *International Journal of Neutrosophic Science (IJNS)*, 18(04), 291-300, 2022, <https://doi.org/10.54216/IJNS.180424> , 11-08-2022.
- R. Dhanush Babu, M. Vahini, S. Shakti Varsha, R. Sundareswaran, M. Shanmugapriya and Mahesh Veezhinathan, *Indian Journal of Natural Sciences*, Vol.13 / Issue 73 / August, pp.1-10, 2022, Clarivate, 18-08-2022.
- Sankar Chakaravarthy, Chandran, Saravanan Mariappan and Sujatha Ramalingam, Edge integrity for signed fuzzy graphs, *Journal of Intelligent & Fuzzy Systems*, August, 2022, 43, 4681 - 4690, IF: 1.95, DOI:10.3233/JIFS-220314. TR, Scopus
- Shanmugapriya, R. Sundareswaran, P. Senthil Kumar, Gayathri Rangasamy, Impact of nanoparticle shape in enhancing heat transfer of magnetized ternary hybrid nanofluid, *Sustainable Energy Technologies and Assessments*, October, 2022, 53, Part C, 102700, IF: 7.632, <https://doi.org/10.1016/j.seta.2022.102700>. TR, Scopus
- S Gopi Krishna, M Shanmugapriya, Ammar Alsinai, Abdu Alameri, Prediction of thermal and energy transport of MHD Sutterby hybrid nanofluid flow with activation energy using Group Method of Data Handling (GMDH), *Computational and Applied Mathematics*, September, 2022, 41, 312, 1 - 39, IF: 2.998, <https://doi.org/10.1007/s40314-022-01995-z>. TR, Scopus

- Praba.B, Pooja.S & Nethraa sivakumar,, Attribute based Double Bounded Rough Neutrosophic Sets in Facial Expression Detection, Neutrosophic Sets and Systems, May, 2022, Vol. 49 (2), pp. 324-340, 2.429, 10.5281/zenodo.6426416.svg. Scopus
- R.Dhanush Babu, R.Sundareswaran, M.Shanmugapriya and Mahesh Veezhinathan,, M. Vahini, S.Shakti Varsha, Hospital Selection Process based on Graph Theory, Indian Journal of Natural Sciences, August, 2022, Vol. 13 (73), pp.1-10. TR
- Broumi, R. Sundareswaran, M. Shanmugapriya, Giorgio Nardo, Mohamed Talea, Assia Bakali, and Florentin Smarandache, Interval- Valued Fermatean Neutrosophic Graphs, Decision Making: Applications in Management andEngineering, September, 2022, Vol. 5(2), pp. 176-200. Scopus
- Balaraman Ganesan, Sundareswaran Raman, Balaraman Ganesan,Madhumangal Pal, Strong domination integrity in graphs and fuzzy graphs, Journal of Intelligent & Fuzzy Systems, eptember, 2022, 43, pp. 2619-2632, 1.737, 10.3233/JIFS-213189. TR, Scopus
- D.Yokesh, R.Sundareswaran, V. Swaminathan, Dominating Safe Sets in Graphs, Indian Journal of Natural Sciences, April, 2021, 12, 65, pp.1-5. TR
- R.V. Jaikumar, R. Sundareswaran, R.V. Jaikumar, G. Balaraman, P K Kishore Kumar, Said Broumi, Vulnerability Parameters in Neutrosophic Graphs, Neutrosophic Sets and Systems, September, 2022, 48, pp. 109-121. Scopus
- V. Swaminathan, R. Sundareswaran, D. Lalkshmanaraj, L. Muthusubramanian, Outer complete fair domination in graphs, Discrete Mathematics,Algorithms and Applications, September, 2022, Vol. 14 (3), pp. 2150126-1-2150126-10,0.796, DOI: 10.1142/S1793830921501263. TR, Scopus
- Aravindhan Algarsamy, Sundarakannan Mahilmaran, Aravindhan Alagarsamy, Lakshminarayanan Gopalakrishnan, Seok-Bum Ko, SMA: A constructive partitioning based mapping approach for Networks-on-Chip, Microprocessors and Microsystems, October, 2022, Vol. 94 (104678), pp.1- 8, 3.503, <https://doi.org/10.1016/j.micpro.2022.104678>. TR, Scopus
- S.Sophia, Analysis of an M\co Queue with Encouraged Arrivals and Catastrophes, Indian Journal of Natural Sciences , October, 2022, Vol. 13(74), pp. 62-67,1.233. scopus
- M. Shanmugapriya, R Sundareswaran, Mahesh Veezhinathan, Assessment and Evaluation of Diabetic Foot using Biothesiometry and Artificial Neural Networks, Journal of Clinical and Diagnostic Research, 16(11), 5-10, 2022, TR.
- Praba VENKATRENGAN, Raman SUNDARESWARAN, Swaminathan VENKATASUBRAMANIAN, DOMINATOR SEMI STRONG COLOR PARTITION IN GRAPHS, Commun.Fac.Sci.Univ.Ank.Ser. A1 Math. Stat., 71(2), 930-943, 2022, Scopus.
- Mahesh Veezhinathan,, Sundareswaran Raman, Harsha Balakrishnan, Varsha Seshadri, , Nikileswari Lakshminarayanan, Comparative Study of Dental Implant Materials Using Digraph Techniques , AIP Conf. Proc., December, 2022, 2516, 210033, pp.1-12, Scopus, <https://doi.org/10.1063/5.0108444>.
- M. Elayarani, M. Shanmugapriya, M. Elayarani, Entropy minimization in non-linear radiative heat transfer of magnetized Carreau nanofluid using PSO technique, AIP Conference Proceedings, December, 2022, 2516, 170014-1, 170014-13, Scopus, <https://doi.org/10.1063/5.0108526>.
- R. V. Jaikumar, R. Sundareswaran, R. V. Jaikumar, Said Broumi, Integrity and Domination Integrity in Neutrosophic Soft Graph, Neutrosophic Sets and Systems, February 2023, Vol. 53, pp. 165 - 178, Scopus, 10.5281/zenodo.7535995.

- R. Sundareswaran, S. Vijayan, Sneha S, Srinath Venkatesh, Vishnu Prasad P R, Viswapriya G, Lakshmi Narayan Mishra and Said Broumi, Failure analysis of pump piping system using DEMATEL SVN methodology, Neutrosophic Sets and Systems, February 2023, Vol. 53, pp. 202 - 218, Scopus, 10.5281/zenodo.7536005.
- P. Sangeetha, M. Shanmugapriya, Predicting the shoreline changes in Vishakhapatnam coastal zone using Multi-output Adaptive Neuro Fuzzy Inference System, Computational Ecology and Software, February, 2023, Vol. 13 (1), pp. 1 - 19, Thomson Reuters.
- S. Gopi Krishna, R. Sundareswaran, P. Senthil Kumar, S. Gopi Krishna, MANFIS approach for predicting heat and mass transport of bio magnetic ternary hybrid nanofluid using Cu/Al₂O₃/MWCNT nano additives, Biomass Conversion and Biorefinery, June, 2022.
- Rajan, R.S., Rajalaxmi, T.M., Reji, R.M., , Maximum Subgraph Problem for 3-Regular Knodel graphs and its Wirelength, Lecture Notes in Computer Science, February 2023, Vol. 13947, pp. 403 – 414, Scopus, https://doi.org/10.1007/978-3-031-25211-2_31.
- Muthusubramanian, R.Sundarewaran, V. Swaminathan, Secure equitability in graphs, Discrete Mathematics, Algorithms and Applications, April, 2023, 15, 2, 2250081-1, 2250081-21, Thomson Reuters, <https://doi.org/10.1142/S1793830922500823>.
- V. Sutha Devi, R. Sundareswaran, M. Lellis Thivagar, Algorithmic aspects of domination number in nano topology induced by graph, Discrete Mathematics, Algorithms and Applications, April, 2023, 15, 2, 2250082-1, 2250082-14, Thomson Reuters, 10.1142/S1793830922500823
- Praba B, Balambal Suryanarayanan, D.Nagarajan, Broumi Said, Analysis of Teaching-Learning Efficiency Using Attribute Based Double Bounded Rough Neutrosophic Set Driven Random Forests, Neutrosophic Sets and Systems, April, 2023, 55, pp. 13-34, Scopus, DOI: 10.5281/zenodo.7832706.
- Aravindhan Alagarsamy, Sundarakannan Mahilmaran, Lakshminarayanan Gopalakrishnan, Seok-Bum Ko, SaHNoC: an optimal energy efficient hybrid networks-on-chip architecture, The Journal of Supercomputing, April, 2023, 79, pp. 6538- 6559, Thomson Reuters, Scopus, Impact factor: 2.557, <https://doi.org/10.1007/s11227-022-04910-9>.
- C.Beaula, B.Praba, Dr.P.Venugopal, Block Encryption and Decryption of a Sentence Using Decomposition of the Turan Graph, Journal of Mathematics, May 2023, Vol. 2023, <https://doi.org/10.1155/2023/7588535>.

JULY 2023 – JUNE 2024

- Dr.B.Praba, L.P.Anto Freeda, Rough concept lattice on an information system, Indian journal of natural sciences (Thomson Reuters), vol.14(78), pp. 565 – 577, June 2023.
- G. Kirithiga Nandini, Sandi Klavžar, T.M. Rajalaxmi, R. Sundara Rajan, A note on eccentricity based topological indices of honeycomb, oxide and 2-power interconnection networks, Journal of Discrete Mathematical Sciences & Cryptography (Thomson Reuters), 2023. DOI <https://doi.org/10.1080/09720529.2021.1935095>
- S. Surabhi, T.M. Rajalaxmi, R. Sundara Rajan, QSPR analysis for certain similar chemical compounds in Retinol, vol. 2829 (30005), pp. 030005-1 - 030005-5, AIP Proceedings (Scopus), July 2023. <https://doi.org/10.1063/5.0156895>
- R. Sundara Rajan, Kirithiga Nandini G, Rajalaxmi T.M., Resilience Measures in Christmas trees, vol. 2797(20009), pp. 020009-1 - 020009-10, AIP Proceedings (Scopus), July 2023. <https://doi.org/10.1063/5.0148991>

- R. Sujatha, R. Sundareswaran, M. Saravanan, Brain Network Analysis Through Span Integrity of Fuzzy Graphs, *New Mathematics and Natural Computation*, vol.19(2), pp.525 – 539, July 2023. DOI: 10.1142/S1793005723500205
- S. Sophia, B. Muthu Deepika, Analysis of a fluid queue modulated by a queue with vacations in random environment, vol. 2829 (30005), pp. 080001-1 - 080001-5, AIP Proceedings (Scopus), July 2023. <https://doi.org/10.1063/5.0157243>
- Dr. S. Sophia, B. Muthu Deepika, S. R. Ananatha Lakshmi, Analysis of A Fluid Queue Driven by a Queue with Multiple Exponential Vacations and Impatient Customers, *Bulletin of Mathematical Analysis and Applications* (Thomson Reuters), vol. 15 (2), pp. 1 – 13, April 2023. <https://doi.org/10.54671/BMAA-2023-2-1>
- Dr. S. Sophia, Analysis of an M/M/c Queue with Encouraged Arrivals and Catastrophes, *Indian Journal of Natural Sciences* (Thomson Reuters), vol. 13(74), pp. 47415 – 47420, October 2022.
- M. Shanmugapriya, R. Sundareswaran, S Said Broum, Solution and Analysis of System of Differential Equation with Initial Condition as Trap Number, *Neutrosophic Sets and Systems*, August 2023, Vol. 57, pp. 194 – 209, Scopus, Impact Factor 2.429, 10.5281/zenodo.8271360.
- Balaraman G, Sundareswaran R, Shanmugapriya M, Balaraman G, Said Broumi, Geodetic domination integrity in fuzzy graphs, *Journal of Intelligent & Fuzzy Systems*, July 2023, Vol. 45, pp. 2209 - 2222, Thomson Reuters, Scopus, Impact Factor 2, 10.3233/JIFS-223249.
- Sangeetha P, Shanmugapriya M, Predicting the strength of seashell concrete using Adaptive Neuro-Fuzzy Inference System: An experimental study, *ITECKNE journal*, August, 2023, Vol. 20, No. 1, pp. 1 – 19, Thomson Reuters, <https://doi.org/10.15332/iteckne.v20i1.2917>.
- B. Praba, B. Sudha, The Laplacian and Distance Energies of $\bar{U}-\bar{a}-\bar{y}$ Graph along with its Bounds, *Indian Journal of Natural Sciences*, August 2023, Vol. 14, No. 29, pp. 58743 - 58751, Thomson Reuters, Impact Factor 2.452.
- R. Madura Meenakshi, Padmapriya N, N. Venkateswaran, Segmentation of ocular region in infrared thermal images using mathematical morphology, *AIP Conference Proceedings*, July, 2023, Vol. 2829, pp. 060003-1 - 060003-7, Scopus, Impact Factor 0.189, <https://doi.org/10.1063/5.0156747>.
- G. Sakthi Priya, N. Padmapriya, Comparative study on classification of textures using light weight deep learning architectures based on transfer learning technique, *AIP Conference Proceedings*, July 2023, Vol. 2829, pp. 060002-1 - 060002-8, Scopus, Impact Factor 0.189, <https://doi.org/10.1063/5.0156745>.
- A. Danielraj, N. Padmapriya, P. Venugopal, Static Signature verification using NASNet Deep Learning Architectures, *AIP Conference Proceedings*, July 2023, Vol. 2829, pp. 060004-1 - 060004-8, Scopus, Impact Factor 0.189, <https://doi.org/10.1063/5.0156725>.
- R.V. Jaikumar, R. Sundareswaran, Madhumangal Pal, Perfect score function in picture fuzzy set and its applications in decision-making problems, *Journal of Intelligent & Fuzzy Systems*, August 2023, Vol. 45, No. 3, pp. 3887 – 3900, Thomson Reuters & Scopus, Impact Factor: 2, 10.3233/JIFS-223234.
- M. Shanmugapriya, R. Sundareswaran, P. Senthil Kumar, M. Elayarani, An ANFIS Approach for Predicting MHD Radiative Hybrid Nanofluid Flow Attributes with Activation Energy Effect, *Arabian Journal for Science and Engineering*, 20-Sep-23, Online, pp. 1 – 15, Thomson Reuters & Scopus, Impact Factor: 2.9, <https://doi.org/10.1007/s13369-023-08260-3>.

- Said Broumi, Raman Sundareswaran, Marayanagaraj Shanmugapriya, Prem Kumar Singh, Michael Voskoglou and Mohamed Talea, Faculty Performance Evaluation through Multi – Criteria Decision Analysis Using Interval-Valued Fermatean Neutrosophic Sets, *Mathematics*, 05-Sep, 2023, Vol. 11, No. 18, pp. 3817, Thomson Reuters & Scopus, Impact Factor: 2.4, <https://doi.org/10.3390/math11183817>.
- Said Broumi, R. Sundareswaran, M. Shanmugapriya, P. Chellamani, Assia Bakali, Mohamed Talea, Determination of various factors to evaluate a successful curriculum design using interval-valued Pythagorean neutrosophic graphs, *Soft Computing*, 18-Aug, 2023, Online, Thomson Reuters & Scopus, Impact Factor: 4.1, <https://doi.org/10.1007/s00500-023-08996-y>.
- R. Sundara Rajana, T. M. Rajalaxmi, Sudeep Stephen, A. Arul Shantrinal, K. Jagadeesh Kumar, Ebedding Wheel-like Networks, *Iranian Journal of Mathematical Sciences and Informatics*, October , 2023, 18, 2, 185, 198, Thomson Reuters, Scopus, 10.52547/ijmsi.18.2.185.
- S. Yugesh, B. Vanasri Vignesh, and R. Aarthi, Solving System of Lane-Emden type Equations using Taylor Series, *Indian Journal of Natural Sciences*, October, 2023, 14, 80, 63067, 63072, Thomson Reuters.
- V. James, B. Sivakumar, Application of Grobner Basis Technique in Economic Models and Markov Process, *Universal Journal of Applied Mathematics*, August 2023, 11, 2, 28, 33, DOI: 10.13189/ujam.2023.110202.
- R. Madura Meenakshi, N. Padmapriya, N. Venkateswaran, Shany Shperling and Ari Leshno, Classification of Retinal Vascular Diseases Using Ensemble Decision Tree in Thermal Images, *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*. , October, 2023, 37, 12, 2357010, 2357010, Thomson Reuters, Scopus, DOI: 10.1142/S0218001423570100.
- Muhammad Usman Ghani, Muhammad Imran, S. Sampath Kumar, Fairouz Tchier, K. Pattabiraman and Ahmad Zubair Jan, A paradigmatic approach to the molecular descriptor computation for some antiviral drugs, *Heliyon*, November, 2023, Vol. 9, 11, pp. e21401 - e21401, TR, Scopus, Impact Factor 4, <https://doi.org/10.1016/j.heliyon.2023.e21401>.
- S. Sampath Kumar, K. Sankar, K. Sankar, Resolvable Odd Cycle Factorization of Tensor Product of Complete Graphs, *Indian Journal of Natural Sciences*, October, 2023, Vol. 14, 80, pp. 63887 - 63892, TR.
- Swaminathan Venkatasubramanian, Raman Sundareswaran, Complementary Fair Domination In Graphs, *Journal of Science & Arts* , September, 2023, 23, 3, 765, 772, Thomson Reuters, Impact Factor 0.675, <https://doi.org/10.46939/J.Sci.Arts-23.3-a18>
- M. Shanmugapriya, R. Sundareswaran, P. Senthil Kumar, M. Elayarani, An ANFIS Approach for Predicting MHD Radiative Hybrid Nanofluid Flow Attributes with Activation Energy Effect, *Arabian Journal for Science and Engineering*, September, 2023, 48, , 16373, 16387, Thomson Reuters, Scopus, Impact Factor 2.29, <https://doi.org/10.1007/s13369-023-08260-3>
- V. James, B. Sivakumar, A Simple Algorithm to Find Dominating Set of Graphs and Properties of S-Polynomials, *Journal of Propulsion Technology*, December, 2023, 44, 6, 1181, 1186, Scopus, Impact Factor 1.069, <https://doi.org/10.52783/tjpt.v44.i6.3342>
- G.Sakthipriya and N. Padmapriya, PT-CNN: A Non-linear Lightweight Texture Image Classifier, *Neural Process Letters*, December, 2023, Vol. 55, pp. 8483 – 8507, Thomson Reuters, Scopus, Impact Factor: 2.8, <https://doi.org/10.1007/s11063-023-11322-0>.

- A.Daniel Raj, Dr. P. Venogopal and N. Padmapriya, Region adjacency graph based GNN approach for static signature classification, Journal of Intelligent & Fuzzy Systems,, Jan, 2024, pp. 1 – 18, Thomson Reuters, Scopus, Impact Factor: 2, 10.3233/JIFS-231369
- M. Shanmugapriya, R. Sundareswaran, S. Gopi Krishna, and Abdu Alameri, Investigation of Magnetized Casson Nanofluid Flow along Wedge: Gaussian Process Regression, International Journal of Mathematics and Mathematical Sciences, January 2024, Vol. 2024, pp.1-24, Thomson Reuters, Scopus, Impact Factor: 1.2, <https://doi.org/10.1155/2024/2880748>.
- Shanmugapriya Marayanagaraj, Sundareswaran Raman, Abdu Alameri, Heat Transport Efficiency of Magnetized AA7072/H2O Nanofluid and AA7072 + AA7075 / H2O, Hybrid Nanofluid Past a Non-Linear Porous Stretching Sheet , Biointerface Research in Applied Chemistry, January, 2024, Vol. 14, No. 1, pp. 1-13, Scopus, Impact Factor: 2.363, DOI: 10.33263/BRIAC141.024.
- Petchimuthu Manivannan, Mahilmaran Sundarakannan, Sonasalam Arockiaraj, Existence and non-existence of total eccentric graphical intervals, Science Asia, January 2024, Vol. 50, No. 3, pp. 1-6, Thomson Reuters, Scopus, Impact Factor: 1.2, <http://dx.doi.org/10.2306/scienceasia1513-1874.2024.009>.
- JS. Mullai Venthana, P. Senthil Kumar, S. Sampath Kumar, S. Sudarsan, Gayathri Rangasamy, A computational study of the impact of fluid flow characteristics on convective heat transfer with Hall current using the MHD non-Newtonian fluid model , Chemical Engineering Research and Design, February, 2024, Vol. 203, pp. 789 – 799, Thomson Reuters, Scopus, Impact Factor: 3.9, <https://doi.org/10.1016/j.cherd.2024.02.013>.
- Danielraj, A., Venugopal, P. Padmapriya, N. Region Adjacency Graph Based GNN Approach for Static Signature Classification, Journal of Intelligent & Fuzzy Systems, Jan., 2024, Vol. 46, No. 3, pp: 6977 – 6994, Thomson Reuters, Scopus, Impact Factor: 1.95, 10.3233/JIFS-231369.
- M. Shanmugapriya, R. Sundareswaran, S. Gopi Krishna, Madhumangal Pal, Ananalysis of effect of higher order endothermic/exothermic chemical reaction on magnetized casson hybrid nanofluid flow using fuzzy triangular number, Engineering Applications of Artificial Intelligence, March, 2024, Vol. 133, 108119, Thomson Reuters, Scopus, Impact Factor: 8, <https://doi.org/10.1016/j.engappai.2024.108119>.
- R.K. Suganthi Bapuji Pullepu, P. Supriya, M. Shanmugapriya, I. Pop, Variable Thermal Conductivity And Mass Diffusivity Effects In A Free Convective Flow Of Doubly Stratified Non-Darcian Porous Medium Over A Vertical Plate , International Journal of Applied Mechanics and Engineering, March, 2024, Vol. 29, No. 1, pp. 159 – 178, Scopus, Impact Factor: 0.83, DOI: 10.59441/ijame/178469
- V. James and B. Sivakumar, Generating functions for a new class of recursive polynomials, Journal of advances in mathematics and computer science, April 2024, Vol. 39, No.5, pp.15-28, 10.9734/jamcs/2024/v39i51887.
- Vanitha, V., Transient and Steady State Analysis of M/D/1 Queue with compulsory vacation, Journal of Harbin Engineering University, May, 2024, Vol. 45, No. 5, pp. 215 - 220, <https://harbinengineeringjournal.com/index.php/journal/article/view/2976>
- Praba B, Balambal Suryanarayanan, Autism Detection Using Fuzzy β -Neighborhood Based Soft Rough Sets, Communications on Applied Nonlinear Analysis, Vol 31. No. 3s (2024).

JULY 2024 – Till date

- V. Rajkumar, B. Sivakumar, Nur Idayu Alimon, The M-Polynomial of Schrier graphs of the Basilica and Grigorchuk Groups : Comparative evaluation, Communications on Applied Nonlinear Analysis, July, 2024, 31(3), pp. 377 - 392, <https://doi.org/10.52783/cana.v31.788>
- Deepa Perumal, Aravindhan Alagarsamy, Sundarakannan Mahilmaran, Gian Carlo Cardarilli, Seok-Bum Ko, Probability-based mapping approach for an application-aware networks-on-chip architectures, Nano Communication Networks, July, 2024, 41, 100526, 1, 13, Q2, <https://doi.org/10.1016/j.nancom.2024.100526>
- **B. Praba**, B. Sudha, Aathish sivasubrahmanian, The Bounds of Energies of Rough Complemented Graph, Communications on Applied Nonlinear Analysis, August, 2024, Vol. 31, Issue. 6s, pp. 193 – 206 , Scopus, Impact Factor: 0.13, No, <https://doi.org/10.52783/cana.v31.1178>
- Pranesh Kumar S P, Sofiajennifer, Kalaivani C, Florentin Smarandache, A Python Tool For Interval Valued Bipolar Neutrosophic Sets And Operations, Journal of Fuzzy Extension and Applications, August, 2024, Scopus, <https://doi.org/10.22105/jfea.2024.446338.1395>, Q1
- S. Yuges, N. Annamalai, K. Hariharan and A. Elanthair, Nil, Taylor Series Method for Solving System of Nonhomogeneous Lane-Emden Type Equations, Indian Journal of Natural Sciences, August 2024, Vol. 15, Issue. 85, pp. 76377 - 76385, Thomson Reuters.
- G. Sakthipriya, N. Padmapriya & N. Venkateswaran TSDAnet: texture strip dual attention network for intraclass texture classification, Signal, Image and Video Processing, Jul-24, 2024, Vol. 18, pp. 7597 – 7610, Thomson Reuters, Impact Factor: 2, <https://doi.org/10.1007/s11760-024-03413-9> , Q2.
- Arputha Jose. T, Sampath Kumar S. and Cecily Sahai C., Decomposition of Complete Tripartite Graphs into Short Cycles, Ars Combinatoria, September, 2024, Vol. 160, pp. 85 – 103, Scopus, <https://doi.org/10.61091/ars-160-09>.
- R. Madura Meenakshi , N. Padmapriya, N. Venkateswaran, Shany Shperling, Ari Leshno c,e Bispectrum Analysis of Thermal Images for the Classification of Retinal Vascular Diseases, Biomedical Signal Processing and Control, 1st October, 2025, Vol. 99, Thomson Reuters, Impact Factor: 4.9, <https://doi.org/10.1016/j.bspc.2024.106878>, Q1.
- Kalaivani C, and Sofia Jennifer J, Hausdorff Space in Neutrosophic Ideal Topological Spaces: Applications in decision Making, Neutrosophic Sets and Systems, Vol. 73, 273-281, October 2024, Scopus, 1.98, Q2.
- Sofia Jennifer J, and Kalaivani C, A Neutrosophic Approach for Breast Mass Detection in digital Mammogram Images, Neutrosophic Sets and Systems, Vol. 73, 93-101, October 2024, Scopus, 1.98, Q2.
- S. Narasimman, M. Shanmugapriya, R. Sundareswaran, Laxmi Rathour, Lakshmi Narayan Mishra, Vinita Dewangan, Vishnu Narayan Mishra, Identification of influential factors affecting student performance in semester examinations in the educational institution using score topological indices in Single Valued Neutrosophic Graphs, Neutrosophic Sets and Systems, Vol. 75, 224-238, October 2024, Scopus, 1.98, Q2.
- Smruthi P., Abinaya S., Dharunya S., Sundareswaran R., Shanmugapriya M., Said Broumi, Comparative Analysis of Neutrosophic, Pythagorean neutrosophic, and Fermatean neutrosophic Soft

Matrices in the context of Industrial Accidents: A Case Study, Neutrosophic Sets and Systems, Vol. 73, 378-399, October 2024, Scopus, 1.98, Q2.

- V Rajkumar, B. Sivakumar, Nur Idayu Alimon, The M-polynomial of Schreier Graphs of the Basilica and Grigorchuk Groups: Comparative Evaluation, Communications on Applied Nonlinear Analysis, Vol. 31 (3), 377 – 392, Scopus, 0.123, <https://doi.org/10.52783/cana.v31.788>.
- R. V. Jaikumar, Sundareswaran Raman, Ammar Alsinai, Shanmugapriya Marayanagaraj, The Perfect Score Function and Optimized Weighted Geometric Operator for Ranking Single-Valued Neutrosophic Numbers in the Decision-Making Process, Wiley, Journal of Mathematics, September 2024, pp. 1 – 14, Thomson Reuters, Scopus, Impact Factor: 2.3, Q1, <https://doi.org/10.1155/2024/4116205>.
- M. Shanmugapriya, A. S. Ashwinth Jeffrey, R. Sundareswaran, Heat and Mass Transfer of Boundary Layer Jeffrey Ternary Hybrid Nanofluid Flow Over Porous Wedge With Surface-Catalysed Chemical Reactions: An ANFIS Model, Wiley Journal of Mathematics, November 2024, pp. 1 – 30, Thomson
- Parvathy Gnana Sambandam, Sundareswaran Raman, Sakander Hayat, Swaminathan Venkatasubramanian, A Study on Variants of Status Unequal Coloring in Graphs and Its Properties, Wiley Journal of Mathematics, October 2024, pp. 1 – 9, Thomson Reuters, Scopus, Impact Factor: 2.3, Q1, <https://doi.org/10.1155/2024/9033408>.
- Yongsheng Rao, Srinath Ponnusamy, Sundareswaran Raman, Aysha Khan and Jana Shafi, Fuzzy Coalition Graphs: A Framework for Understanding Cooperative Dominance in Uncertain Networks, Mathematics -MDPI, November 2024, Vol. 12, No. 1, pp. – 16, Thomson Reuters, Scopus, Q1, <https://doi.org/10.3390/math12223614>.
- Chitra Boobalan, Isaac Jayakaran Amalraj, Smruthi Pradeep, Abinaya Sureshbabu & Dharunya Sundararajan Nanoparticle Enhanced Bio-lubricants: A study Thermo-Physical properties, Journal of Dispersion Science and Technology, November, 2024, Not yet available (Published in online right now.), Thomson Reuters, Scopus, Impact Factor: 2.1, Q2 <https://doi.org/10.1080/01932691.2024.2431101>
- Said Broumi, M. Shanmugapriya, R. Sundareswaran, Neutrosophic Approach to Solving First-Order Differential Equations: Applications to Heat Convection with Uncertain Initial Conditions, Neutrosophic Sets and Systems, December, 2025, 79, pp. 419 – 435, Scopus, Impact Factor 2.429, <https://fs.unm.edu/nss8/index.php/111/article/view/5594>, Q1.
- B. Amudha, M. Shanmugapriya, R. Sundareswaran, Said Broumi, Numerical and Semi Analytical Scheme for developing a solution to Falkner Skan equation in Neutrosophic environments, Neutrosophic Sets and Systems, December, 2025, 79, pp. 188 – 215, Scopus, Impact Factor 2.429, <https://fs.unm.edu/nss8/index.php/111/article/view/5572>, Q1.
- B. Sivakumar, V. Rajkumar, Muhammad Kamran Siddiqui, Quantifying Algebraic Connectivity: Sombor Index and Polynomial in Some Graphs of Commutative Ring Z_p , Symmetry, December, 2024, 16, 1615, pp. 1 – 17, Scopus, Impact Factor 2.7, <https://doi.org/10.3390/sym16121615>, Q2.
- A. Sathish Kumar, S. Yugesha, A Characterization of the Convergence in Variation for the Exponential Sampling Operators, Results in Mathematics, January, 2025, 80, 29, 1, 15, Thomson Reuters, Scopus, Impact Factor 1.11, <https://doi.org/10.1007/s00025-024-02347-5>, Q2.
- R. Sumathi, K. Angaleeswari, R. Sundareswaran, V. Swaminathan, Maximal point set domination in graphs, Discrete Mathematics, Algorithms and Applications, Feb-24, 2025, 17, 1, 2450014-1, 2450014-11, Thomson Reuters, Scopus, Impact Factor 0.6, Q2.

- S. Neelakantan, V. Swaminathan, R. Sundareswaran* and K. A. Venkatesh, Proximity equitability Colouring in graphs, *Bol. Soc. Paran. Mat*, February, 2025, 2025, 43, 1, 5, Thomson Reuters, Scopus, doi:10.5269/bspm.63131, Q2.
- L. Muthusubramanian, R. Sundareswaran, V. Swaminathan, Complementary Degree Equitable Sets in Graphs, *Bol. Soc. Paran. Mat*, Feb, 2025, 2025, 2025, 43, 1, 5, Thomson Reuters, Scopus, doi:10.5269/bspm.75317, Q2.
- R. Sundareswaran , M. Shanmugapriya , Ammar Alsinai , N. Venkataraman, V. Swaminathan, and Hanan Ahmed, Selection of an Optimal Warehouses Using Global Regular Domination in Graphs, *International Journal of Mathematics and Mathematical Sciences*, February, 2025, Volume 2025, Article ID 2174609, 1, 8, Thomson Reuters, Scopus, <https://doi.org/10.1155/ijmm/2174609>, Q2.
- R. Sumathi, K. Angaleeswari, R. Sundareswaran, V. Swaminathan, Maximal point set domination in graphs, *Discrete Mathematics, Algorithms and Applications*, February, 2025, 17, 1, 1, 11, Thomson Reuters, Scopus, DOI: 10.1142/S1793830924500149, Q2.
- Rini Dominic D, R. Sundara Rajana, T.M. Rajalaxmi, L. Packiaraj, Optimal Layout of Embedding onto Folded Hypercubes, *International Journal of Foundations of Computer Science*, March, 2025, Thomson Reuters, Scopus, Impact Factor 0.6, No, <https://doi.org/10.1142/S0129054125500066>, Q2.
- B.Praba, L.P.Anto Freeda, Rough identity-summand graph and its applications, *Journal of informatics and mathematical sciences* Vol. 17, No. 1 (2025).
- A. S. Ashwinth Jeffery, M. Shanmuga Priya, R. Sundareswaran, U. Fernandez-Gamiz, MHD ternary (Ag – CuO - SWCNT) blood-based Jeffrey nanofluid flow with surface catalyzed reaction, *AIP Advances*, April, 2025, 15, 045109-1 , 045109-24, Thomson Reuters, Scopus, Impact Factor: 1.4., 10.1063/5.0233817, Q2.
- A Danielraj, P.Venugopal, N. Padmapriya, Graph neural networks: A paradigm shift in static signature classification via Delaunay triangulation, *Latin American Applied Research*, April, 2025, Vol. 55 No. 2, 2025, Thomson Reuters, <https://doi.org/10.52292/j.laar.2025.3617> , Q3.
- B. Sivakumar, S. Vasanthi, Complex-Type Catalan Transform of K-Jacobsthal And Fourth-Order Jacobsthal Recurrences, *Integers*, March , 2025, 25, , 1, 13, Scopus, 10.5281/zenodo.15090988, Q3.
- S. Vanitha, M/G/1 Queue with Two Stage Heterogeneous Service and Compulsory Deterministic Server Vacations, *Communications on Applied Nonlinear Analysis*, February, 2025, 32, 9s, 377, 385, Scopus, <https://doi.org/10.52783/cana.v32.3949>.
- R. Sundara Rajan, Rini Dominic, T. M. Rajalaxmi, Graph Embedding for Minimum Wirelength in Circulant Networks: Applications in Architecture Simulation and Comparative Analysis, *Journal of Interconnection Networks*, April, 2025, 2550008-1, 2550008-19, Thomson Reuters, Scopus, Impact Factor 0.5, 10.1142/S0219265925500082.
- C. Cecily Sahai, S. Sampath Kumar, T. Arputha Jose, A note on Pk-decomposition of the Kneser graph, *Discrete Mathematics, Algorithms and Applications*, April 2025, 2450058-1, 2450058-5, Thomson Reuters, Scopus, Impact Factor 0.6, DOI: <https://doi.org/10.1142/S1793830924500587>