



Journal Publication:

2022-2023

1. Dr.A.Vanitha Katharine ,Dr.S.Nagarani, K.Sampath kumar, Dr.L.Anitha, C.Rajasekar, Identification Of Sentimental Analysis In Social Media Content Using Machine Learning, NeuroQuantology,vol 20,issue15,page 5839-5844, November2022.
2. S.Padma, N.Mehala, A.Eswari, M.E.G.Lyons, B.Manimegalai, L.Rajendaran, S.Saravanakumar, Mathematical Analysis for Electron Transfer Mediator/ Heterogeneous Catalyst Composites in Polymer Modified Electrodes, International Journal of ELECTROCHEMICAL SCIENCE, Year 2022, Pages 1-14.
3. A Eswari, S Saravanakumar, Studying on Crop Response Model for Grapes under Climate Change Scenario: Statistical Study Approach, International Journal of Environment and Climate Change, 12(12), 883-894, 2022.

2021-2022

1. P. Geetha, S. Nagarani, "Novel Model for Automatic Classification of the Epileptic Seizures Using Fast Fourier Series-Haar Wavelet Transform", Journal of Medical Imaging and Health Informatics. Vol 11, No. 12, 3209-3214, 2021.
2. P. Geetha, S. Nagarani, "An Efficient Image Segmantation Using Partial Differential Equation for Image Processing Applications", Journal of Medical Imaging and Health Informatics. Vol 11, No.10,2538-2545, 2021.
3. S. Lavanya, S. Nagarani, "Leader-following consensus of multi-agent systems with sampled-data control and looped functionals" Mathematics and Computers in Simultation 191 (2022) 120-133, ELSEVIER-available in Science Direct.
4. M. Vijaya kumar, S. Nagarani, C. Pradeep, R. Prabakaran, "Robust synchronization of uncertain Markovian jumping complex interconnected neural networks via adaptive fault-tolerant control" European Journal of Control 63 (2022) 14-27, ELSEVIER-available in Science Direct.



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5. S.Kalyani, S.Nagarani, A fully fuzzy transportation problem with hexagonal fuzzy Number, AIP Conference Proceedings, 2261, 030078, 2020.
6. S.Saravanakumar, L. Maragatham, A. Eswari, "Analysis for Malaria Transsion Dynamic between Human and Mosquito Population, Part II: Effective Infection Rate using New Technique" Indian Academy of Cytologists, Sep 15 2021.
7. S.Parvatham, D.Senthilkumar, "Tensor Sum", International Journal of All Research Education and Scientific Methods (IJARESM), Vol.9, No. 9(sep-2021), 1369-1376.

2020-2021

1. S.Lavanya, S.Nagarani, "Projective synchronization of fractional-order chaotic energy resource systems via linear control based on Takagi - Sugeno fuzzy model", AIP Conference Proceedings, 2261(1),030127,2020.
2. S.Anne Susan, S.Nagarani, "Unsteady Hydromagnetic Flow and Radiation Heat Transfer Past a Stretching Surface Embedded in a Porous Medium with Dissipation Effects", International Conference on Science, Engineering and Technology :IOP Conference Conf. Series: Materials Science and Engineering , 932 , 2020.
3. Sekar, S.Nagarani, R. Immanuel, V. RubeshRaja, "A Fuzzy Approach to Predict the Thermal Performance of Spiral Solar Thermal Collector", Turkish Journal of Computer and Mathematics Education, Vol. 12, No. 6(2021) pp 172-179.
4. Immanuel Rajkumar, B Paul Vinofer, S. Nagarani, V. Chokkalingam, V. Raja, M. Dhineshkumar, "Thermal Performance of Spiral Solar Collector Using Cfd", International Journal of Advanced Science and Technology, Vol. 29, No. 12s, (2020). pp. 1968-1981.
5. Eswari, S. Saravanakumar, "New mathematical analysis for Non-linear Simultaneous Differential Equation in Micro-Disk biosensor using Huperbolic function method", Journal of Electroanalytical Chemistry, 2020.
6. S. Saravakumar, A. Eswari, L. Rajendran and Marwan Abukhaled, "A mathematical model of risk factors in HIV/AIDS transmission Dynamics:



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- Oberservational Study of female sexual network in india", An international journal of Applied mathematics & Information Sciences, Vol. 14. No. 6, 967-976 (2020).
7. Eswari, S. varadha Raj, S. Saravanakumar, "Mathematical impact of SIR network model on varying size of the hunman population", Asia Mathematika, vol 4 (I), PP-69-78, 2020.
 8. S. Kalyani, "IOT based smart system for avoidance of fire accidents on running buses", International journal of science engineering and advance technology, vol. 8 Aug 2020.
 9. S.Parvatham, D.Senthilkumar, Spectral Properties of k-Quasi-Parahyponormal Operators, International Journal of Mathematics Trends and Technology, Vol. 66, No. 7(2020), 73-76.

2019-2020

1. P.Geetha, S.Nagarani, "Influence of Heat Generation and Radiation on Heat and Mass Transfer in Porous Medium", Caribbean Journal of Science, 53(2), 2019.
2. A. Eswari, S. Saravanakumar, "Mathematical Analysis of Dengue fever infection in india", Advance in mathematics science journal 8(2019), no. 3, 641-650.
3. S. Saravanakumar, B. Sridevi, A. Eswari, and L. Rajendran, "Computational and mathematical analysis of fuzzy Quota Harvesting model in Fuzzy environment using Homotopy perturbation method", An Intrnational journal of Applied mathematics & Infomation sciences, pp. 239-245, 2019.
4. S.Parvatham, D.Senthilkumar, "Aluthge transformation of n - class Q and n class Q* operators", Journal of Emerging Technologies and Innovative Research, Vol. 6, No. 6(2019), 467-478
5. S.Parvatham, D.Senthilkumar, Aluthge transformation of (n,k) quasi class Q and (n,k) quasi class Q* operators, International Journal of Engineering Development And Research, Vol. 7, No. 3(2019), 647-662.



2018 - 2019

1. Hariharan K, R.Immanuel, S.Nagarani, S. Kalyani, "Smart Agricultural Weed Removal System", International Journal of Computer & Mathematical Sciences, 120(6), 2018
2. R.Roger, S.Nagarani, "A Watchdog for Indigenous Cattle Breeds to Increase Milk Yield in Indian Dairy Farms", International Journal of Pure & Applied Mathematics, 120(6), 2018.
3. E.Ramkumar, S.Nagarani, Tomen: "A Plant monitoring and smart gardening system using IoT", International Journal of Pure & Applied Mathematics, 119(71), 2018.
4. M. Vijaya kumar, Dr. S. Nagarani, "New Results On $L_2 - L_\infty$ Sampled-Data Controller Design For Singular Networked Cascade Control Systems With Mixed Actuator Failure", Global Summit on Science, Technology, Engineering and Management (GSSTEM) – May, 2018
5. L. Maragatham, "Reliable H_∞ control design for uncertain neutral type system with time-varying delays", Technical research organisation, vol. 5, 2018.
6. Eswari, S. Saravanakumar, "Analysis of mathematical modelling the depletion of forestry resource: effects of population and industrialization", Matrix science mathematics 3(2), 2019.
7. D.Senthilkumar, S.Parvatham, "Weyl's Theorem for Class Q and k - Quasi Class Q Operators", The Australian journal of Mathematical Analysis and Applications, Vol 16, No.2(2019), Ar 17, 1-11.
8. S. Saravanakumar, B. Sridevi, A. Eswari, "Modelling the depletion of atmospheric fuzzy planton-oxygen dynamics in a lake due to photosynthetic activity of ecosystem under climate change", International journal of mathematics and systems science vol.1(2018)
9. S. Saravanakumar, B. Sridevi, A. Eswari, "Analysis of empirical fuzzy rate equations in homogeneous reaction diffusion thomas model", TAGA journal vol. 14 (2018)
 - A. Eswari, S. Saravanakumar, "Analysis of modelling for induced resistance to plant disease using biological control agents", Asia Mathematics, 2018



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10. D.Senthilkumar, S.Parvatham, “Aluthge transformation of quasi - n - class Q and quasi - n class Q^* operators”, European Journal of Pure and Applied Mathematics, Vol.11, No. 4(2018), 1108-1129