



R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY
R S M Nagar, Pudukottai – 601 206



Department of Computer Science and Engineering
JANUARY 2023 – DECEMBER 2024

FACULTY PUBLICATION – JOURNAL

1. Dr. LEO AMALRAJ J published a paper titled Numerical Analysis of Fractional Order Discrete Bloch Equation in Journal of Mathematics and Computer science in Sep 2023,
2. Dr. LEO AMALRAJ J published a paper titled Fixed point results under Hausdorff distance in the fractal spaces in Communication on applied and Non linear analysis in March 2024.
3. Dr S M CHITHRA published a paper titled A Study on Repeated Game Theory in Wireless sensor Networks security in Springer – Intelligent Communication Technologies and Virtual Mobile Networks in June 2023.
4. Dr S M CHITHRA published a paper titled Steady state concentration in an amperometric biosensor using mathematical modeling in Modern Physics Letters B in June 2023.
5. Dr S M CHITHRA published a paper titled Reverse Sharp and Left-T Right-T Partial Ordering on in International Journal of Neutrosophic Science (IJNS) in July 2023.
6. Dr S M CHITHRA published a paper titled Pulsatile flow of biviscous fluid through a tube of varying cross-section in Modern Physics Letters B in June 2023.
7. Dr. HEMA P published a paper titled Empirical Analysis of Rainfall Prediction System using an DGRNN-SAM Approach in Proceedings of the 5th International Conference on Inventive Research in Computing Applications (ICIRCA 2023) in August 2023.
8. Dr. HEMA P published a paper titled An Effective Approach for Image Denoising Using Wavelet Transform Involving Deep Learning Techniques in Proceedings of the 4th International Conference on Smart Electronics and Communication, in August 2023.
9. Dr. BANU PRIYA V published a paper titled A Design of an Effective Methodology to Detect Glaucoma Disease using Intelligent Learning Strategy in IEEE in January 2024.
10. Dr. BANU PRIYA V published a paper titled Stability of a Quadratic-Reciprocal Functional in Communications in Mathematics and Applications in April 2024.
11. Mr Dr. SAKTHI published a paper titled Stabilities and instabilities of Euler-Lagrange cubic functional equation in Journal of Mathematics and Computer Science in April 2024.
12. Dr. DEVI G published a paper titled Moringa Oliefera: A Phytochemical and Biological Study in Combination with Medicinal Potential Spices in Proceedings of the National Academy of Sciences, India Section A: Physical Sciences in February 2024.
13. Mr. SUNDARESWARAN T published a paper titled Crystal structure, DFT study, Hirshfeld analysis and optical third order nonlinear properties of new 1-naphthylaminium



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hydrogen fumarate salt in Results in Optics in December 2023.

14. Mr. SUNDARESWARAN T published a paper titled Enhanced Optimization-based Node Localization Scheme for WSN in IEEE in September 2023.
15. Mr. SUNDARESWARAN T published a paper titled Synthesis, growth, structural, and optical properties of benzotriazolium oxalate dihydrate (BTO) single crystal in Journal of Materials Science: Materials in Electronics in September 2023.
16. Ms. JAYANTHI N published a paper titled Enhancing the performance of Evacuated Heat pipe solar collector using CuO nanofluid in Journal of polymers and composites in March 2024.
17. Ms. JAYANTHI N published a paper titled Influence of fibers in hybrid polymer composites fabricated by hand lay-up method in AIP Conference Proceedings in December 2023.
18. Ms. JAYANTHI N published a paper titled Effect of Environmental Factors on Dynamic Viscosity of Zirconia and Silica Nanofluids: Experimental Insights and Theoretical Predictions in Nano world Journal in October 2023.
19. Ms. JAYANTHI N published a paper titled Development of polyester-based structural composites using recycled plastic core, tanned leather, and GFRP additives for safe and sustainable environmental production in Polymer Bulletin in April 2024.
20. Dr. NARMATHA SU published a paper titled Design and Fabrication of Sm₂O₃ multiwalled carbon nanotube hybrid sensors for detection of LPG and ethanol gases in Journal of Materials Science: Materials in Electronics International in November 2023.
21. Dr. SUDHAKAR K published a paper titled Facile one-pot synthesis of porous NiCoP@reduced graphene oxide composite as active electrode material for high energy density asymmetric supercapacitor in Chemical Physics Letters International in June 2023.
22. Dr. SUDHAKAR K published a paper titled Emission study on a direct injection diesel engine powered with blends of Moringa oleifera biodiesel-diesel in Environ Qual Manage. International in August 2023.
23. Dr. SAI KUMARI N published a paper titled Extensive function of green synthesized titania nano particles Photodegradation of congo red in TAPPI-Nanotechnology International in October 2023.
24. Dr. SAI KUMARI N published a paper titled Extensive studies on the electrochemical, photocatalytic and antimicrobial applications of bio assisted nano titania SN in Applied science International in November 2023.
25. Dr. SAI KUMARI N published a paper titled Adsorptive performance of sunflower seed



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- ash as a novel biosorbent for the elimination of Congo red from aqueous solution in Advances in Environmental Technology International in November 2023.
26. Dr. SAI KUMARI N published a paper titled A Probabilistic Fault Detection Approach for the Management of Energy and Environment in Buildings using BiGRU-SA Approach in IEEE Explore in January 2024.
 27. Dr. S.JOTHILAKSHMI published a paper titled IOT based water Irrigation System with Power generation in European Chemical Bulletin in June 2023.
 28. Dr. S.JOTHILAKSHMI published a paper titled Sustainable approach to electroless copper plating process in Transaction of the institute of metal finishing in April 2024.
 29. Dr. S.JOTHILAKSHMI published a paper titled Enhancement of Deposition Rate by Accelerators Employing D-Mannitol as Complexing Agent in Bulletin of the Chemical Society of Ethiopia in April 2024.
 30. Ms. JAYALAKSHMI V published a paper titled Convolution Neural Network and EVO Based Efficient Method for Detecting Nerve Disorders in IEEE in September 2023.
 31. Ms. JAYALAKSHMI V published a paper titled Auto Encoder and PMU Applied Electricity Theft Detection in Smart Grids in IEEE September 2023.
 32. Ms. JAYALAKSHMI V published a paper titled Enhancing Student Performance through Adaptive Knowledge Assessment: A Bayesian Optimization Approach in IEEE in January 2024.
 33. Ms. JAYALAKSHMI V published a paper titled Implementation of Video-Based Human Anomalous Activity Detection Using LSTM-RNN Network in IEEE in December 2023.
 34. Dr. KALPANA published a paper titled Enhanced COVID-19 Detection and Privacy Preserving Using Federated Learning in IEEE in August 2023.
 35. Dr. KALPANA published a paper titled Estimation of Tropical Cyclone Intensity from Satellite Data Using Self Attentive - TCNN-BiGRU Approach in IEEE in August 2023.
 36. Dr. KALPANA published a paper titled Technological Evaluation and Software Bug Training using Genetic Algorithm and Time Convolution Neural Network (GA-TCN) in IEEE in August 2023.
 37. Dr. JUSTIN Z published a paper titled An IoT and Random Forest-DT-Based Early Enhanced Forest Fire Detection in Large and Small Targets in IEEE in March 2024.
 38. Dr. JUSTIN Z published a paper titled Sports Risk Prediction and Evaluation Model Based on Single Layer Feed Forward Neural Network in IEEE in March 2024.
 39. Dr. NAGESWARI D published a paper titled Machine Learning and Internet of Things-based Driver Safety and Support in International Conference on Communication and



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Electronics Systems (ICCES) in August 2023.

40. Dr. NAGESWARI D published a paper titled Experimental analysis of Al-SiC-TiB₂ hybrid metal matrix composite in AIP CONFERENCE PROCEEDINGS in November 2023.
41. Dr. NAGESWARI D published a paper titled Improvement of power quality using variable leaky least mean square controller with adaptive shunt active filter for non linear loads in AIP CONFERENCE PROCEEDINGS in November 2023.
42. Dr. NAGESWARI D published a paper titled Smart Street Light Management System Using IoT for Enhanced Energy Efficiency and Control in 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT in March 2024.
43. Dr. K.V. BINDU published a paper titled A novel five level dual active bridge DC-DC converter for DC microgrid in AIP CONFERENCE PROCEEDINGS in November 2023.
44. Dr. K.V. BINDU A power quality enhancement system using a one stage AC to DC non wired power transfer converter in AIP CONFERENCE PROCEEDINGS in November 2023.