

Sri Sivasubramaniya Nadar College of Engineering
Department of Computer Science & Engineering

Faculty Journal Publications (July 2022 – June 2023)

SCI/WOS	Scopus	Others	Total
45	7	7	59

1. Monisha M. and V.S. Felix Enigo, "Optical Character Recognition for Printed Tamizhi Documents using Deep Neural Networks", DESIDOC Journal of Library and Information Technology, July 2022, Vol.42(4), pp.227-233, **ESCI IF: 1.685**, DOI:[10.14429/djlit.42.4.17742](https://doi.org/10.14429/djlit.42.4.17742)(Q2)
2. Sheerin Sitara Noor Mohamed, Kavitha Srinivasan, "Improvisation of Dataset Efficiency in Visual Question Answering Domain", Statistics and Applications Journal, Vol.20(2), December 2022, pp.279-289. **ISSN 2454-7395 (ESCI)**
3. S.M.Jaisakthi, P.Mirunalini, Aravindan Chandrabose, Appavu Rajagopal, "Classification of skin cancer from dermoscopic images using deep neural network architectures", Multimedia Tools and Applications, Online First, October 2022. (**SCIE IF: 2.577**) DOI: [10.1007/s11042-022-13847-3](https://doi.org/10.1007/s11042-022-13847-3) (Q1)
4. Prabavathy Balasundaram, Lekshmi Kalinathan, Sushaanth Srinivasan, Sharvesh Shankar and W Angeline Hilda, "A Novel Generalized Handwritten Character Recognition Model using Few-Shot Learning", Indian Journal of Natural Sciences, Vol.13(75), December-2022, pp.50507-50518. **WoS IF: 1.988**
5. Prabavathy Balasundaram-Lekshmi Kalinathan, Anu Lekshmi, "An Improved Face Recognition Model for Image-based Attendance System", Indian Journal of Natural Sciences, Vol.13(75), December-2022, pp.50307-50316. **WoS IF: 1.988**
6. Ujjwel Balwal, Angel Deborah S, Rajalakshmi S and Saritha M, "Crop Quality Prediction using Image Processing", Indian Journal of Natural Sciences, Vol.13(75), December-2022, pp.51271-51278. **WoS IF: 1.988**
7. Venkata Vara Prasad D, Lokeswari Y Venkataramana, Suresh Jaganathan, "Pulmonary Nodule Detection Using Deep Learning Technique", Neuroquantology, Vol.20(11), pp.6418-6427, Sept 2022. (**Scopus**) (Q4)
8. Lekshmi Kalinathan, Ruba Soundar Kathavarayan "Segmentation of Multiple Nuclei from Non-overlapping Immuno-histochemically Stained Histological Hepatic Images, Journal of Digital Imaging, Online First, 02 August 2022. **ESCI IF: 4.903** <https://doi.org/10.1007/s10278-022-00688-7>. (Q1)
9. Shunmuganathan Saraswathi, "Enforcing a Source-end Cooperative Multilevel Defense Mechanism to Counter Flooding Attack", Computer Systems Science And

- Engineering”, January 2023, 44(1), 67-79. **SCI IF:4.397** <https://doi.org/10.32604/csse.2023.023858> **(Q3)**
10. R.Kanchana, T.T.Mirnalinee and V.S.Felix Enigo, “IoT based System for Sewage Overflow Prevention using Heterogeneous Communication Networks”, Asian Journal of Water, Environment and Pollution, IOS Press.vol. 20, no. 1, pp. 25-33, January 2023, **(ESCI IF: 0.78), DOI: 10.3233/AJW230005 (Q3)**
 11. Ezhil Tharsan S., Dharshan S., Dinesh G. and Saraswathi S., “Real Time Indian Sign Language Detection using LSTM and Keypoint Extraction”, International Journal of Computer Applications, Vol.184(21):1-7, July 2022.
 12. Anandh Krushna S K, Deepananth K, Praveen Kumar S, Nithish Bharathwaj K R, Lekshmi Kalinathan, Nagarajan K K., “SolarPanel Dual Management System”, International Journal of Advanced Research in Management, Architecture, Technology and Engineering, Volume 8, Issue 7, July 2022.
 13. Dakshinamoorthy Karthikeyan, Chamundeswari Arumugam, Arun Sivakumar, “Android X-Ray - A system for Malware Detection in Android apps using Dynamic Analysis”, WSEAS Transactions on Information Sciences and Applications, Volume 19, November 2022, pp.264-271. **(Scopus)**
 14. Chaithanya A, Hariharan R, Harishkumar S, Prabavathy B, “Enhancing GraphQL Data Fetching Technique”, International Journal of Computer Applications, July 2022, Vol. 184(20), pp:1-6.
 15. Adithya Vikram, R. Priyadharsini, Adithya VIKRAM, Anusha CHANDRASEKARAN, S. K. SRINITHYEE, “Forensic face image generation and recognition”, Romanian Journal of Information Technology and Automatic Control”, Vol.32(3), October 2022, <https://doi.org/10.33436/v32i3y202207> **(ESCI IF:0.5)**
 16. R. Priyadharsini, Sharath Chander Pugazhenthii , Shivaani Krishnakumar and Soundarya Jayakumar, “Outcome Prediction for One Day International Cricket Matches”, Indian Journal of Natural Sciences, Vol 13 Issue 74, October 2022, ISSN: 0976 – 0997, pp.48220-48231. **WoS IF: 1.988**
 17. Praveenkumar R, Mirunalini. P , Mirnalinee.T.T, “Localization of Number Plate using Deep Learning Models”, Indian Journal of Natural Sciences, TR Vol.13(74), **(WoS)** ISSN: 0976-0997, October 2022, pp. 47514-47521.
 18. Ms. S. Rajalakshmi, Ujjwel Balwal, Angel Deborah S and Saritha M, Varshini Balaji, Sivakami S, “Automatic Forest Fire Detection using Drones and Deep LearningTechniques”, Indian Journal of Natural Sciences, Vol.13(74), ISSN: 0976-0997, October 2022, pp. 47599-47607. **WoS IF: 1.988**
 19. Kavithasri A Saritha M Rajalakshmi S and Angel Deborah S, Aishvarya S “Automated Vehicular Accident Detection and Notification System”, Indian Journal of Natural Sciences, Vol.13(74), IISSN: 0976-0997, October 2022, pp. 48645-48652. **WoS IF: 1.988**
 20. Srinivas Gumparti, D.Venkata vara Prasad, “Stock Price Prediction Using Statistical and Machine Learning Techniques”, NeuroQuantology, Vol 20(10), October 2022, pp. 11127-11129, doi: 10.14704/nq.2022.20.10.NQ551079. **(Scopus) (Q4)**
 21. S.V.Jansi Rani, Nivedhitha .P, “Multi-species Fish Identification using Hybrid DeepCNN with Refined Squeeze and Excitation Architecture”, Aquatic Sciences and

- Engineering, Vol.37(4), ISSN:2602-473X, November, 2022, pp.220- 228. **SCI IF: 0.21**, DOI :[10.26650/ASE202221163202](https://doi.org/10.26650/ASE202221163202) **(Q4)**
22. Lakshmi Priya S, Suresh Jaganathan, “Intelligent short term traffic forecasting using deep learning models with Bayesian contextual hyperband tuning”, Computational Intelligence, Vol.38(6), December 2022., **SCIE IF: 2.142**, <https://doi.org/10.1111/coin.12554> **(Q2)**
 23. Bhuvana J, T. T. Mirnalinee, B. Bharathi, “Infant Sneha, Efficient generative transfer learning framework for the detection of COVID-19”, Computer Sciences and Information Systems (ComSIS), Vol.19(3), , December 2022, pp.1241-1259. **SCIE IF: 1.17**, <https://doi.org/10.2298/CSIS220207033B> **(Q3)**
 24. Balasubramanian V, Vignesh Balaji S, Supraja S, Sumon Kumar, Thejas N, Shruthi D, Shri Keshavinee R, “Anti-Shoulder Surfing Graphical Password Authentication System”, , Indian Journal of Natural Sciences, Vol.13(76), ISSN: 0976 – 0997, Feb , 2023, pp.1-11. **WoS IF: 1.988**
 25. S. Kavitha, G. Raghuraman, A. Kavithasri, S. Aishvarya, B. Janani, “Learning behaviour analysis of online course learners using EEG and facial expression data”, Measurement: Sensors, Vol. 25, 1, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100669>, January 2023, pp.1-9. **(Scopus) (Q3)**
 26. Kavitha Srinivasan, -, Sheerin Sitara Noor Mohamed, “Comprehensive Interpretation for Medical VQA: Datasets, Techniques, and Challenges”, Journal of Intelligent & Fuzzy Systems, 10.3233/JIFS-222569, January, 2023 (Online), pp.1-17. **(SCIE :1.737) (Q2)**
 27. S.V. Jansi Rani, Prabagarane Nagaradjane, -, Sai Charan, Sai Prakash, Niel Parekh, Iacovos Ioannou, Christophoros Christophorou, Vasos Vassiliou, Andreas Pitsillides, “Detection of DDoS attacks in D2D communications using machine learning approach”, Computer Communications, Vol.198, doi.org/10.1016/j.comcom.2022.11.013, , January, 2023, pp.32-51. **(SCIE IF:5.021) (Q1)**
 28. Madheswari K, Saraswathi S, Lokeswari Y.V, K.K.Nagarajan, -, Aswatha S, Deepika R, Dhuru Piraba M, Dhaneesh V.P, “Smart air pollution monitoring system”, Global NEST Journal, Vol.25(3), January 2023, 2023, pp.125-129. **(SCIE IF 1.134) (Q3)**
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 29. Seyezhai Ramalingam, Muthuselvan N.B, Bhuvana J, “A Study and Review of Classical, Machine Learning and Deep Learning Methods of Software Reliability Estimation for Safety-Critical Systems”, Indian Journal of Natural Sciences, Vol.13(76), February, 2023, pp.52452-52467. **WoS IF: 1.988**
 30. Dhivya, S., Mohanavalli, S and Kavitha, S, “Automated Carcinoma Classification Using Efficient Nuclei-based Patch Selection and Deep Learning Techniques”, Journal of Intelligent & Fuzzy Systems, online first, 10.3233/JIFS-222136, April 2023, pp.1-15. **(SCIE IF 1.134) (Q3)**
 31. VLKM Amith Kumar N, Satheesh Kumar.G.R , Sreedhar.V , Surya.S.S , S.Saraswathi, Y V Lokeshwari, “Smart Home Security System and Liveness Detection using Convolutional Neural Networks” Indian Journal of Natural Sciences 13 (75), 51612-51617, December 2022. **WoS IF: 1.988**

32. Lokeswari Y Venkataramana , Venkata Vara Prasad D S. Saraswathi, C. M. Mithumary, R. Karthikeyan,N. Monika “Classification of COVID-19 from tuberculosis and pneumonia using deep learning techniques” in Medical & Biological Engineering & Computing **July 2022**, Springer ISSN / eISSN: 0140-0118/ 1741-0444, **[SCIE IF :2.602]** <https://doi.org/10.1007/s11517-022-02632-x> **(Q2)**
33. R.Srijith, H.K.Vishal and A.Beulah, 2023, “Visual Scene Understanding for Self-Driving Vehicles using Mask RCNN”, *Indian Journal of Natural Sciences*, Vol.14 / Issue 77, pp: 54833- 54840, April 2023. **WoS IF: 1.988**
34. S. Saranya, B. Bharathi, “NLP Approach for Recognizing Alzheimer’s Dementia from Spontaneous Speech” *Indian Journal of Natural Sciences*, Vol.14(77), April, 2023, pp.54382-54390. **WoS IF: 1.988**
35. Jansi Rani S V, Yamini L, Shivanni K, Radha N (2022). Blockchain based system for transfer of funds through an e-Governance application. *Romanian Journal of Information Technology and Automatic Control*, 32(4), 93-102. <https://doi.org/10.33436/v32i4y202208>, December 2022. **(ESCI IF:0.5)**
36. Jaisakthi, S.M., Desingu, K., Mirunalini, P. *et al.* "A deep learning approach for nucleus segmentation and tumor classification from lung histopathological images", *Network Modeling Analysis and Health Informatics Bioinformatics* **12**, 22 (2023). <https://doi.org/10.1007/s13721-023-00417-2> **(ESCI IF: 2.05) (Q3)**, May 2023.
37. S.V.Jansi Rani (2022), Plant Disease Detection using Transfer Learning in Precision Agriculture, *Ambient Science*, vol.9, no.3, 34-39. doi:10.21276/ambi.2022.09.3.ta02, November 2022.
38. K., Pravinkrishnan & Balasundaram, Prabavathy & Kalinathan, Lekshmi. (2022). An Overview of Chatbots using ML Algorithms in Agricultural Domain, *International Journal of Computer Applications*. Vol.184. pp.15-22. 10.5120/ijca2022922082, May 2022.
39. S.V.Jansi Rani, Raghu Raman V and Rahu Ram, “Multi Object Detection and Classification in Solid waste management using Region Proposal Network and YOLO model”, *Global Nest Journal*, Vol.24(4), September 2022, pp.743-751. **.(SCIE IF 1.134] (Q3)**
40. Swetha Saseendran, Sathish Prasad Vetrivel Thanalakshmi, Swetha Prabakaran, Dr. R. Priyadharsini, Analysis of player tracking data extracted from football match feed, *Romanian Journal of Information Technology and Automatic Control*, Vol. 33, No. 2, June 2023. **(ESCI IF:0.5)**
41. Kanchana Rajaram V. Dayanidhi Harikrishnan Srikrishnan P. Aadhithyan, A Benchmark to ensure End-to-End Exactly-Once-Semantics in Stream Processing, *Indian Journal of Natural Sciences*, Vol.14, No. 78. June 2023. **WoS IF: 1.988**
42. Kavitha Srinivasasn, Sainath Prasanna, Rohit Midha & Shraddhaa Mohan, "Federated Learning Framework for IID and Non-IID datasets of Medical Images", *EMITTER International Journal of Engineering Technology*, 11(1), 1-20. June 2023. <https://emitter.pens.ac.id/index.php/emitter/article/view/742> **(ESCI)**
43. Kanchana Rajaram, N.G. Bhuvaneswari Amma, S. Selvakumar. “Convolutional neural network based children recognition system using contactless Fingerprints”, *International Journal of Information Technology*, (2023) Springer. June 2023. **(Scopus)**

44. Prabavathy BALASUNDARAM, Vishnu K. KRISHNAN, Vrishin VIGNESHWAR, Suraj JAIN, Telepulse: A Novel Scalable Serverless Framework for Vehicle Telematics using Microsoft Azure Cloud Service, *Romanian Journal of Information Technology and Automatic Control*, ISSN 1220-1758, vol. 33(2), pp. 23-34, 2023. <https://doi.org/10.33436/v33i2y202302>, June 2023. **(ESCI IF:0.5)**
45. Srinivas Gumparti, D.Venkata vara Prasad,Vaseekaran, Vignesh, “Evaluating Market Trends: Utilizing RSI using Machine learning for Improved Investment Decisions”, Vol.8(4), Novyi Mir, June 2023. PAGE NO: 154-165 , ISSN: 0130-7673. DOI:16.10098.NMRJ.2022.V8I4.256342.3706 **(WoS)**
46. Kapilan Kulayan Arumugam Gandhi, Chamundeswari Arumugam, Toward a unified and secure approach for extraction of forensic digital evidence from an IoT device, *International journal of Information Security*, Volume 22, issue 2, April 2023, 417–431. <https://doi.org/10.1007/s10207-022-00645-z> **(SCIE:2.427) (Q1)**
47. G Raghuraman, S Kavitha, Nitish Gokulakrishnan, Santosh Radhakrishnan, Pranav Ramakrishnan, “Smart Parking System with Dynamic Pricing Model”, *Indian Journal of Science and Technology*, 16(18), 1332-1339, May 2023. DOI: [10.17485/IJST/v16i18.2489](https://doi.org/10.17485/IJST/v16i18.2489), Indexed in Zoological Record, **WoS IF: 1.988**
48. Prabavathy Balasundaram, Lekshmi Kalinathan,Anu Lekshmi, “An Improved Face Recognition Model for Image-based Attendance System”, *Indian Journal of Natural Sciences*, Vol.13(75), pp.50307-50316, November 2022. **WoS IF: 1.988**
49. Benisha S, Mirmalinee TT, “Human Facial Emotion Recognition using Deep Neural Networks”, *The International Arab Journal of Information Technology*, 2023, ISSN 1683-3198. **(SCIE:0.967) (Q2)**, May 2023. <https://www.iajit.org/paper/4814/Human-Facial-Emotion-Recognition-using-Deep-Neural-Networks>
50. Abinash N, Lekshmi Kalinathan, Raghavesh DB, Kirthika R, Hemanth Kumar K M, Praveen M, Nestor Ingarshal J and Prabavathy Balasundaram, “Sentiment Analysis on Reviews Using Word Embedding and Ratings”, *NeuroQuantology* (June, 2023),Volume 21, Issue 6, pp. 1084-1098, ISSN:1303-5150. doi: 10.48047/nq.2023.21.6.NQ23114 **(Scopus)**.
51. Suresh J,Venkata vara Prasad,Sudarshanan S, “Automated deep learning based network for detecting Covid-19 from lung CT scan”, *journal of pharmaceutical negative results*, Vol.14(2), June 2023, DOI: <https://doi.org/10.47750/pnr.2023.14.02.230> ISSN: 0976-9234. pp.1850-1862. **(Scopus)**
52. Karthik Desingu, Daniel Mark Isaac, Mirunalini P, Bharathi B, and Cherry Mathew Philipose, “LocateMyBus: IoT-Driven Smart Bus Transit”, *Journal of Communication Software and Systems*, Vol. 19, No. 2, June 2023. **(ESCI IF: 0.95). (Q4)**
53. Dhivya S, Mohanavalli S, Kavitha S, Sripriya N, “Automated Detection and Segmentation of Mammogram Images using Deep Learning Techniques”, *Indian Journal of Natural sciences*, Vol-14, Issu 78, June 2023 **WoS IF: 1.988**
54. Divya S, Sripriya N, Mohanavalli S, Mirunalini P (June 2023). A Transformer Approach for Multi-Document Summarization using TR-BERT. *Indian Journal of Natural Sciences*. Indian Journal of Natural Sciences. Vol.14 / Issue 78 / June / 2023. **WoS IF: 1.988**

55. Kiruthigha Manikantan, and Suresh Jaganathan, “A Model for Diagnosing Autism Patients Using Spatial and Statistical Measures Using rs-fMRI and sMRI by Adopting Graphical Neural Networks”, *Diagnostics* 13(6):1143, pp:1-20, doi:10.3390/diagnostics13061143 **(SCIE IF: 3.6) (Q2)**, March 2023.
56. Veeramani Karthika and Suresh Jaganathan, “iLEDGER: A lightweight blockchain framework with new consensus method for IoT application”, *IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences*, Vol.E106-A, No.9, doi:10.1587/transfun.2022EAP1088 **(SCIE). (Q3)**, March 2023.
57. Divya J C, Mirnalinee T T, Bhuvana J, “A Study on Self-Supervised Learning based Feature Generalization, *Indian Journal of Natural Sciences* , Vol.14, Issue 78, 56755 – 56762, June 2023. **WoS IF: 1.988**
58. D. Thenmozhi, Kalaivani A, Kabilasudhan NC, Rajeshwaran, Pratyush Nepal, “Efficient Human Activity Monitoring Using Feature Based Deep Learning Techniques, *Lampyrid*, Volume 13, 162–173, ISSN: 2041-4900, May 2023.
59. D. Thenmozhi, Kalaivani A, Manickam L, Aadithya Hariharan A N, “Chatbot for Educational Institution, *BIOGECKO*, Volume 12, Issue 3, 6283-6303, ISSN: 2230-5807, June 2023. DOI : <http://biogecko.co.nz/.2023.v12.i03.pp6283-6303>.

Faculty In-charge

HOD, CSE