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Assistant Professor
Department of Electronics and Communication Engineering
SRM Institute of Science and Technology
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Educational Qualifications :

Ph.D. (Full Time) (2016 - 2019) : College of Engineering Guindy, Anna University Chennai

M.E. Communication Systems (2011-2013) : Sri Krishna College of Engineering and Technology, Coimbatore

B.E. ECE (2007-2011) : SNS College of Technology, Coimbatore

Experience :

Assistant Professor, ECE, SRMIST Ramapuram (Jan 2021 to Till date)

Research Areas :

Image processing, Medical Imaging, Machine Learning, Deep Learning, Internet of Things.

PhD Guiding : 01

Publications:

- Vanaja, S., R. Preetha, Joselin jeya sheela, K. Durga Devi, and Gayathry Shobana Warriar, Krishnan R. "Location of early stage tumor detection using microwave imaging in the breast phantom." *Current Medical Imaging*, (SCIE, Scopus), (IF:1.24), 2022. DOI: 10.2174/1573405618666220621114937
- Preetha, R., Vanaja, S., Durga Devi, K., Lathammanju, R. and Kurian, N.S. S JVJ (2022) Mass Sphering Approach for Three-Dimensional Reconstruction of Brain Tumor using MRI. *Indian Journal of Science and Technology*, 15(3), pp.97-106, (Web of Science) 2022. DOI: 10.17485/IJST/v15i3.1633

- Durga Devi, K. and Uma Maheswari, P., Recognition and Classification of Stone Inscription Character Using Artificial Neural Network. In *Artificial Intelligence and Technologies* (pp. 253-261). (Scopus- Springer), 2022. DOI:https://link.springer.com/chapter/10.1007/978-981-16-6448-9_26v
- Durga Devi, K., Maheswari, P.U., Polasi, P.K., Preetha, R. and Vidhyalakshmi, M., 2023. Pattern Matching Model for Recognition of Stone Inscription Characters. *The Computer Journal*, 66(3), pp.554-564. (SCIE, Scopus), (IF: 1.76), 2021. DOI: <https://doi.org/10.1093/comjnl/bxab177>
- K. Durga Devi and P. Uma Maheswari, 2019, “Digital acquisition and character extraction from stone inscription images using modified fuzzy entropy-based adaptive thresholding”, *Soft Computing*, Vol: 23, Issue: 8, PP. 2611-2626, (SCI, Scopus- Springer), (IF: 3.050), 2019. DOI: <https://doi.org/10.1007/s00500-018-3610-2>
- Gadiraju, T., Durga Devi K., Raavi, A. and Pinapothini, U.K., 2023, June. IoT and Hybrid Cloud for Smart Hospital Management. In *2023 8th International Conference on Communication and Electronics Systems (ICCES)* (pp. 365-370). IEEE. DOI: 10.1109/ICCES57224.2023.10192855
- Shree Shankar S, Nikhil, Pramod, Prabal, Durga Devi K, “The Behaviour and Sentience of Artificial Intelligence”, International Conference on Intelligent Computing, Smart Communications and Network Technologies (ICSCNT), Communication in Computer & Information Science (Scopus) 2023
- Durga Devi. K, Supraja G, Vanathi A, Vidhyalakshmi , “Digitization and Electronic translation of Brahmi Stone inscriptions”. International conference on Recent Advances in Industry 4.0 Technologies (ICRAIT), NIT Puducherry. (AIP Proceedings) (Scopus) 2023.
- Mrinal Anand, Durga Devi. K, Yash pandey, Aditya Choudary, vidhyalakshmi Predicting Bitcoin trends using Machine Learning and Deep Learning algorithms Via continuous and binary data- A comparative analysis. IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2022) IEEE (Scopus) 2023
- Akshay, R., Tarun, G., Kiran, P.U., Durga Devi. K and Vidhyalakshmi, M., 2022, December. Water-Quality-Analysis using Machine Learning. In *2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)* (pp. 13-18). IEEE (Scopus) 2022. DOI: 10.1109/SMART55829.2022.10047533
- Aswin, S., Kumar, P.V., Lakshmi, M.V. and Durga Devi. K, 2022, December. Time Series Analysis of the Monkeypox Datasets. In *2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)* (pp. 915-919). IEEE (Scopus). DOI: 10.1109/SMART55829.2022.10047268

- Iyswariya, A., Preetha, R., Chinnammal, V., Lathammanju, R., Durgadevi, K. and Kumar, P., 2021, November. Design of Dual Band Meander Line Scoop Antenna for ISM Bands. In 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) (pp. 1-5). IEEE. DOI: 10.1109/I-SMAC52330.2021.9640871
- K. Durga Devi and P. Uma. Maheswari, 2017, "Insight on character recognition for calligraphy digitization", IEEE Technological Innovations in ICT for Agriculture and Rural Development (TIAR),Chennai,2017, PP.78-83, IEEE. DOI: 10.1109/TIAR.2017.8273690

Patents

- A Smart Chair with AI and IoT for Dynamic Posture Correction – 202141019796
M Vidhyalakshmi K Durgadevi, R Preetha **(Published)**
- An IoT Sensor system for Microplastic Detection in Tap Water - 202241067147
(Published)
- Machine Learning based oxygen filter for oxygen tents - 337073-001 **(Granted)**
- Animal Tracking Strap using RFID and IoT - 382438-001 **(Granted)**

Guest Lecture

“DEEP LEARNING TECHNIQUES AND IT’S RESEARCH APPLICATIONS” on 29th April 2021 organized by Department of Electronics and Communication Engineering, Ahalia School of Engineering and Technology, Palakkad.

Reviewer

- Multimedia Tools and Applications- Springer (IF: 3.5)
- International journal of Ambient Intelligence and Humanized computing- Springer (IF: 4.5)
- Journal of SuperComputing - Springer (IF: 2.6)
- First International Interdisciplinary Conference on Energy, Nanotechnology and Internet of Things (ENT 2023 at NIT Puducherry) 2023
- International conferences on Recent advances in Industry 4.0 Technologies (ICRAIT 2022 at NIT Puducherry) 2022

Professional Bodies

Member - Indian Society for Technical Education (ISTE)
International Association of Engineers (IAENG)

Achievements & Awards Received :

- Received **“Anna Centenary Research Fellowship (ACRF)”** from **CEG, Anna University** during PhD (Full Time Mode) in the Tenure Period of 2017 to 2019
- Received **“Institute 1st Rank Holder with Gold Medalist”** in M.E (Communication Systems) in the year 2011-2013
- Awarded **“Outstanding Student Venkatraman Memorial Award”** for the year 2012-2013
- Awarded **“Academic Excellence Award”** in M.E (Communication Systems).

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Scopus : 56147009500

Google Scholar : <https://scholar.google.co.in/citations?user=y9o1tjoAAAAJ&hl=en&authuser=1>