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Dr. S. Nithya Working as an Assistant Professor in the Department of EEE at SRMIST, Ramapuram. She Graduated in Electronics & Communication; Engineering at Bharathiyar University, Coimbatore, Tamilnadu, India. She secured Master of Engineering in VLSI Design at Anna University, Chennai, India. She Pursued Ph.D. in the field of Wireless Communication at SRMIST, Chennai, India. She is in teaching profession for more than 18 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

Areas of Research:

Network Security, Wireless Sensors, Machine Learning

Selected Publications:

1. Nithya Savarimuthu, Parimaladevi Muthusamy, “Modelling and simulation of improved hybrid dual converter using wave energy”, *AIP conference Proceedings.*, 2813, 020013 (2023), <https://doi.org/10.1063/5.0156898>
2. D.Mohammed, M. Al-Dossari, Nithya Savarimuthu, “Study of three types of photonic crystal materials: a comparative and computational study”, *Optical and Quantum Electronics*, 55, 524 (2023) <https://doi.org/10.1007/s11082-023-04714-y>
3. B. Nirmala, S. Nithya, R. Vidhiya, K. K. Sunalini, B. H. Kumar and B. Varadharajan, "Intelligent System for Vehicles License Plate Recognition Using a Hybrid Model of GAN, CNN and ELM," *2023 2nd International Conference for Innovation in Technology (INOCON)*, Bangalore, India, 2023, pp. 1-6, doi: 10.1109/INOCON57975.2023.10101051. <https://ieeexplore.ieee.org/document/10101051>
4. Muthusamy, P.D., Velusamy, G.,Thandavan, S. B.R.Govindasamy, Nithya Savarimuthu. “Industrial Internet of things-based solar photo voltaic cell waste management in next generation industries”. *Environmental Science and Pollution Research*, **29**, 35542–35556 (2022). <https://doi.org/10.1007/s11356-022-19411-8>
5. Nithya, S., Vijayalakshmi, K., Parimala Devi, M. (2022). “Predictive Maintenance of Industrial Equipment’s Using IOT” *Proceedings of International Conference on Power Electronics and Renewable Energy Systems. Lecture Notes in Electrical Engineering*, vol 795. Springer, Singapore. https://doi.org/10.1007/978-981-16-4943-1_24
6. Nithya, S., Gomathy, C. “Smaclad: Secure Mobile Agent Based Cross Layer Attack Detection and Mitigation in Wireless Network”. *Mobile Networks and Applications*, **24**, 259–270 (2019). <https://doi.org/10.1007/s11036-018-1201-1>

Patents:

1. 202241039620 A-Designing A Nanostructured Photovoltaics on Solar Panels To Increase The Efficiency of Solar Energy Utilization on 22/07/2022
2. 202241073381 A - A Novel Approach to Predict the Effects of Climate Conditions and The Prevention Of Cardiovascular Disease on 06/01/2023
3. 202341006381 - Implementation of Artificial Intelligence and Blockchain Integrated Billing Architecture For Charging on 24/02/2023
4. 202341026273 A - Optimal Scheduling of Electric Car Charging and Discharging at A Parking Station with A Solar System and An Energy Storage Unit on 05/05/2023

Books/Book Chapters Published:

1. Health Informatics & Technological Solution for Corona Virus (COVID 19) - CRC Press, Taylor and Francis Group, **ISBN:** 9780367704179
2. Security Challenges in Smart Grid Management – River Publisher, ISBN: 9788770226721

Professional Bodies:

Member – IAENG, ISTE, ISRD

Google Scholar:

<https://scholar.google.com/citations?user=GmyYen0AAAAJ&hl>

LinkedIn:

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