

FACULTY VITAE

Name – Swapna B

Education –

Ph.D., Internet of Things in Agriculture, Dr. M.G.R. Educational and Research Institute, Chennai, Tamil Nadu, 2021.

M.E., Applied Electronics, (Anna University 14th Rank Holder) SBC Engineering College, Arani, Anna University, Tamil Nadu, 2014.

B.E., Electronics and Communication Engineering, JNTU, SBC Engineering College, Arani, Anna University, Tamil Nadu, 2010.

Academic experience –

Dr. M.G.R. Educational and Research Institute, Chennai, Associate Professor, From November 2014 – Present.

SKP Engineering College, Tiruvannamalai, Tamil Nadu. Assistant Professor, From 2010-2012

Non-academic experience –NIL

Certifications or professional registrations –NIL

Current membership in professional organizations –

IAENG (International Association of Engineers)

IAER (International Association of Educators and Researchers)

Honors and awards-

Received Research contribution certificate in the year 2020, 2021 and 2022 at Dr. M.G.R. Educational and Research Institute.

Received CVR JC Star First Author.

Received CVR JC Star Co Author in the September 2022.

Service activities (within and outside of the institution)

Reviewer for Journal - International Journal of Pervasive Computing and Communications, International Journal of e-Collaboration, Scalable Computing: Practice and Experience, International Journal of Computers Communications Control, International Journal of Integrated Engineering.

First Year E&T Coordinator, Foreign Language Courses Coordinator & ISO Coordinator

Briefly list the most important publications and presentations from the past five years –

Patent:

Swapna B & et. al, Title of invention: Secure Authenticated Key Agreement Protocol for Cloud-based Internet of Things, Patent number: 202241000939 A, Certificate of grant Innovation patent by India government.

Title of invention: Intuitionistic Fuzzy Solid Assignment Problems for Multi-Attribute Decision-Making, Patent number: 202241008726 A, Certificate of grant Innovation patent by India government.

Publications:

Swapna B & et. al, (2024), “Soil mapping for farming productivity: internet of things (IoT) based sustainable agriculture”, Microsystem Technologies [International].

Swapna B & et. al, (2024),”High-Performance Technique for Item Recommendation in Social Networks using Multiview Clustering, International Journal of Computers Communications & Control [International], Vol. 19, no. 1.

Swapna B & et. al, (2023), “High ECG diagnosis rate using novel machine learning techniques with Distributed Arithmetic (DA) based gated recurrent units”, Microprocessors and Microsystems, Vol. 98, no. pp.104796.

Swapna B & et. al, (2023), "Early Predictive Model for Detection of Plant Leaf Diseases Using MobileNetV2 Architecture", International Journal of Intelligent Systems and Applications in Engineering, Vol. 11, no. 2, pp.46-54.

Swapna B & et. al, (2023), "Optimizing Heterogeneity in IoT Infra Using Federated Learning and Block chain-based Security Strategies", International Journal of Computers Communications & Control, Vol. 18, no. 6, pp.1-21.

Swapna B & et. al, (2023), "Novel Hybrid Optimization Techniques to Enhance Reliability from Reverse Osmosis Desalination Process", ENERGIES, Vol. 16, no. 2, pp.1-15.

Swapna B & et. al, (2023), "Trustworthy Artificial Intelligence and Automatic Morse Code Based Communication Recognition with Eye Tracking", Journal of Mobile Multimedia [International], Vol. 19, no. 6.

Swapna B & et. al, (2023), "Novel and Optimized Efficient Transmission Using Dynamic Routing Technique for Underwater Acoustic Sensor Networks", Engineering Proceedings [International], 2023, Vol. 59, no. 1, pp.1-10.

Briefly list the most recent professional development activities –

Participated in Workshop and Conference

Preparing the article for SCI indexed Journal

Worked for NBA and NAAC as a First Year E&T Coordinator

Involved in the ISO work in the University.

Online Faculty Development Programme on "Designing chips with low power artificial intelligence" from 22.04.2024 to 01.05.2024, Dr. M.G.R. Educational and Research Institute in association with NIT Warangal.

NEP- 2020 Orientation and Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) from 05.02.2024 to 13.02.2024, University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre, University of Hyderabad.

one week FDP Sponsored by IEEE madras section on "Recent trends and Development in AI for autonomous EV", 18-22 nd December 2023, S.A. Engineering College

Books Published:

Dr.B.Swapna, Dr.U.Jayalathusumi, Dr.Chunchu Rambabu, Dr.G.Kavitha, (2023), "Circuit Theory", ISBN No: 978-93-5577-511-5, Charulatha Publications.

Swapna B & et. al, (2021), "Bi-Lingual Programming: C and Python for Modern Codes", ISBN No: 978-93-91303-63-1, Anuradha Publications.

Swapna B & et. al, (2021), "Environmental Science" ISBN - 978-93-91677-13-8, Anuradha Publications.

Swapna B & et. al, (2021), "Basic Electrical and Electronics Engineering", ISBN No: 978-93-91677-12-1, Anuradha Publications.