

DEEPA DEVASENAPATHY Ph.D.,

Instructor-II
Department of Computing and Software Engineering
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Deepa Devasenapathy is an Instructor-II in Computing and Software Engineering Department at U.A. Whitaker College of Engineering FGCU. She worked at Miami Dade College in the Engineering and Technology Department as an Adjunct for 3 years. She worked as Associate Professor in SRM Easwari Engineering College and as Assistant Professor at SRM Valliammai Engineering College for over 15 years in delivering quality instruction in a variety of Undergraduate and Postgraduate courses including Electronics, Electrical, Computer & Communication Engineering. Provides Innovative and adaptable training in Wireless Sensor and Mobile Ad-hoc Networks and various research works.

EDUCATION

- **Ph. D-2017 in Wireless Sensor Networks**
Anna university, Chennai, TN, INDIA
- **Master of Technology-2007 in Communication Systems**
SRM Institute of Science and Technology, Chennai, TN, INDIA
- **Bachelor of Engineering-2000 in Electronics and Communication Engineering**
University of Madras, Chennai, TN, INDIA

WORK HISTORY (TEACHING)

- MDC Kendall Campus/ Entech/ Miami- FL 2019 – 2022
- Easwari Engineering college- Anna University Chennai, TN, INDIA 2011-2016
- Dhanish Ahmed College of Engineering Chennai, TN, INDIA 2010-2011
- Valliammai Engineering College Chennai, TN, INDIA 2000-2010

PROFESSIONAL SUMMARY

Courses taught at MDC (Kendall and Hialeah Campus):

CET 2123C Microprocessors

EET 1025C AC Circuits

EET 1015C DC Circuits

COP2270 C for Engineers

EET 1033C Electrical fundamentals

CET 1110C Digital Systems.

RESEARCH INTEREST

Wireless Sensor Networks, Wireless Mesh Networks, Machine Learning, Big Data Analytics, Network Security, Digital System Design, Computer Networks, Cloud Computing, Mobile Ad Hoc Networks, Digital Image Processing.

TEACHING INTEREST

Computer Science Principles, Programming Languages I and II, Data Structures, Computer Networks, Digital System Design Principles, Software Engineering, Microprocessors, Alternating /Direct Current Circuits, Electronic Circuits, Advanced Digital Systems, Signals and Systems, Digital Signal Processing.

SKILLS

- Course planning
- Creative learning strategies
- Student motivation
- Classroom discipline
- Technological instruction
- Clear communicator of complex ideas
- Student-centered learning

RESPONSIBILITIES

- Taught introductory and upper level courses in Information Technology, Electronics and Communication and Computer Science subjects.
- Demonstrated a continued commitment to undergraduate teaching through full participation in the college community.
- Developed and delivered engaging lectures to undergraduate and post graduate students.
- Preparing course materials such as syllabi, homework assignments and handouts.
- Organized Students Laboratories Supervised and evaluated student's laboratory work.
- Guided students in using technology to support educational research and have guided more than 50 Undergraduate projects.
- Advisor for 3 to 4 batches of research-track students each semester.
- Was a committee member in setting up Undergraduate Syllabus in Anna University Chennai Tamil Nadu, INDIA.
- Coordinator for setting up Digital Electronics, Microprocessor, Optical and Microwave Laboratories.
- Counselling and encouraging Average and below average students to score high in University Examinations.

AWARDS & AFFILIATIONS

- University **Gold medalist** in M. Tech- Communication Systems
- Organized International level Technical IEEE conferences "Technical innovations in ICT for Agriculture and Rural Development" three consecutive years "TIAR 2015"," TIAR 2016" and "TIAR 2017"
- Co-Ordinator for NBA Accreditation
- Published more than 30 research papers in reputed Journals, Conferences and Symposiums
- Member of IEEE & IETE

PUBLICATIONS

1. **Deepa Devasenapathy** and Kathiravan.K "An Energy-Efficient Cluster-Based Vehicle Detection on Road Network Using Intention Numeration Method" published in Hindawi Publishing Corporation "Scientific World Journal" Volume 2015, Article ID 613923, 9 pages <http://dx.doi.org/10.1155/2015/613923>.
2. **Deepa Devasenapathy** and Kathiravan.K "Transmission Efficient Grid based Synchronized Routing in Wireless Sensor Networks using Bayesian Compressive Sensing" published in Asian Journal of Information Technology, ISSN: 1993- 994. (Anna university Annexure-I)
3. **Deepa Devasenapathy** and Kathiravan.K "Application based Energy Efficient Clustering Schemes for Wireless Sensor Networks-A Survey" published in "International Journal of Applied Environmental Sciences" ISSN 0973-6077 Volume 9, Number 6 (2014), pp. 3023-3034
4. **Deepa Devasenapathy** , Aishwariya.M and Kathiravan.K "Energy Efficient Wireless Sensor Networks Using FAF and Dual Cluster Head Technique For Weed Detection" in IEEE International conference (TIAR 2015) held in Easwari Engineering College Chennai, Tamil Nadu, INDIA proceedings.
5. Rajesh.M, **Deepa Devasenapathy** and Kathiravan.K "Energy Conservative Data Transmission using Z-Mac Technique in Wireless Sensor Network for Environmental Monitoring" published in the IEEE International conference (TIAR 2016) held in Easwari Engineering College Chennai, Tamil Nadu, INDIA proceedings.
6. Madhumathy Perumal, **Deepa Devasenapathy** and Kathiravan.K" Energy Efficient Protocol to increase Network Lifetime in Wireless Sensor Network" published In Third National Conference on Convergence of Science, Technology and Management NCCSTM-2017 in Dayananda Sagar Academy of Technology and Management, Bangalore INDIA
7. Kavitha.E and **Deepa Devasenapathy** "Pre- Failure Detection and Recovery of an actor node using Network Topology Management in Wireless Sensor-actor Networks" published in

National Conference ICACN 2014.

8. Kavitha.E , Nivetha.U and **Deepa Devasenapathy** “Energy Efficient Data Transmission using Z-Mac Technique in Wireless Sensor Network” published in National Conference ICACN 2015.
9. Balasubramani.M and **Deepa Devasenapathy** “Design of Directional Routing Protocol For MANET” in National Conference in " Information Communication Networking" on June 2014 at Sairam Engineering College.
- 10.Saranya Ponmani, Mathiyazhagan.L and **Deepa Devasenapathy** “RFID based video surveillance over WSN” in National Conference on Information, Communication and Networking organized by Dhanish Ahmed College of Engineering, Chennai, Apr 2013.
- 11.Naveen Kumar.S, **Deepa Devasenapathy** and Aishwariya.M Fast Image Retrieval Using Cluster Based Annotation Technique in the International Conference in "Emerging Engineering Trends - May 2012 at Sri Ram College of Engineering.
12. Nivetha.J, **Deepa Devasenapathy**, Kavitha.E, “Wireless Sensor Networks in Precision Agriculture” in an International Conference on May 2012 at Raja Rajeswari College of Engineering, Bangalore.
13. Kumararajan.M, MohanRaju.K and **Deepa Devasenapathy**, “Efficient Data Collection In Wireless Sensor Networks” in the third Inter National Conference in Information, Communication and Networking on July 2011 at RMD Engineering College.
14. Suresh.R, **Deepa Devasenapathy** and Karthick Narayanan.K” An Efficient MultiCast Protocol For Mobile Ad Hoc Networks” in the Second National Conference in Information, Communication and Networking May 2010 at SKR Engineering College.
15. Karthikeyan, Farooq and **Deepa Devasenapathy** “Energy Efficient Integrated Clustering Protocol for Wireless Sensor Networks in the Fourth National Conference in Information, Communication and Networking on at Sriram Engineering College on May 2009.
16. Madhumathy.P and **Deepa Devasenapathy**” Priority Packet Forwarding Mechanism for Vehicular Ad Hoc Networks” in the Third National Conference on Information, Communication and Networking on April 2009 at RMK Engineering College.
17. Ramya.R, **Deepa Devasenapathy** and Karthikeyan, “Collision less Multimedia Transmission over Wireless LANs”, IEEE International Conference on Computational Intelligence, Communication Systems and Networks July, 2009.

PATENTS

1. Innovation Patent granted by the Australian Government for “Continuous Labelling Assessment of products to improve Efficiency of Reverse Logistics by Deep Learning Model”
Patent Number: 2020101729

REVIEWER IN INTERNATIONAL JOURNAL AND INTERNATIONAL CONFERENCES

1. Reviewed manuscript # CNCOMM-2015-0342 entitled "The innovation and development of Internet of vehicles" for the China Communications International Journal on December 2015
2. Reviewed paper titled “Design of Accident Detection System Based on Vehicular Networks and Infrastructure Networks for Future Generation Vehicles” in the IEEE International Conference
TIAR 2015
3. Reviewed paper titled” Correlation Delay Shift Keying Based Chaotic MIMO Communication System “in the IEEE International Conference TIAR 2015
4. Reviewed paper titled” Development of control system for an indigenous electrospinning machine “in the IEEE International Conference TIAR 2016
5. Reviewed paper titled “Futures approaches in ICT for agriculture policy development: using value chain frameworks to enhance validity “ in the IEEE International Conference
TIAR 2016
6. Reviewed manuscript Ms_AJGR_41934 “SPATIO-TEMPORAL PATTERN OF MOTORCYCLE ACCIDENTS IN ANAMBRA STATE, NIGERIA” in [Asian Journal of Geographical Research](#)
International Journal on April 2018