

Faculty Profile

Name: **Movva Pavani**

Designation: Assistant Professor in ECE Department

Teaching Areas: Signals and Systems, Linear IC Applications, Digital IC Applications, Analog Communications, Digital Signal Processing.

Research Interests: Wireless Sensor Networks, Heterogeneous Networks

Education: Pursuing PhD in the area of Wireless Sensor Networks (Thesis Submitted).

M.E in Systems and Signal Processing, UCE, Osmania University, Hyderabad, 2009.

B.Tech in Electronics and Communication Engineering, JNTUH, 2002.



Professional Experience: (Total: 18Years)

1. 2014- Till date: Assistant Professor, Icfai Tech, IFHE, Hyderabad.
2. 2012-2014: Associate Professor, Auroras Technical and Research Institute, Uppal, Hyderabad
3. 2006-2012: Sr. Assistant Professor, Vignan Institute of Technology & Science, Deshmukhi, Hyderabad.
4. 2005-2006: Lecturer (University Ratified), RVR & JC College of Engineering, Guntur (AP).
5. 2002-2005: Software Engineer, Wipro Technologies, Bangalore, Karnataka

Patents: 02

Research / Selected Publications:

1. **Movva Pavani** and Trinatha Rao Polipalli (2019). Adaptive PSO with Optimized Firefly Algorithms for Secure Cluster-Based Routing in Wireless Sensor Networks. in **IET Wireless Sensor Systems** doi.org/10.1049/iet-wss.2018.5227, Vol. 9 Issue. 5, PP. 274-283. **(Indexed in ESCI/ Web of Science/Scopus)**
2. **Movva Pavani** and Trinatha Rao Polipalli (2019). Novel Two-Fold Data Aggregation and MAC Scheduling to Support Energy Efficient Routing in Wireless Sensor Network, in **IEEE Access**, Vol. 7, PP 1260-1274, 2019. doi: 10.1109/ ACCESS. 2018.2888484. **(Indexed in Science Citation Index Expanded/Web of Science/ Scopus)**
3. **Movva Pavani** and Kishore K Kumar. Large Scale Air Pollution Monitoring Using Static Multihop Wireless Sensor Networks, International Journal of Computer Aided Engineering and Technology (IJCAET), Vol. 14, Issue 6, PP. 1 **Inderscience**, DOI: 10.1504/ IJCAET. 2022.10020581. **(Indexed in Scopus)**
4. Kishore K Kumar and **Movva Pavani**. Design of RF Planar Slow Wave Interaction Structure for THz Devices, International Journal of Computer Aided Engineering and Technology (IJCAET), Vol. 13, Issue 1, PP. 1 **Inderscience**, DOI: 10.1504/IJCAET.2021.10020698. **(Indexed in Scopus)**
5. Kishore K Kumar and **Movva Pavani**. Design of Master Controller Test Kit for the Railway Diesel Locomotives, International Journal of Intelligent Enterprise (IJIE), Vol. 6, Issue 4, PP 1, **Inderscience**, DOI: 10.1504/IJIE.2019.10020718. **(Indexed in Scopus)**
6. **Movva Pavani** and P. Trinatha Rao (2017). Urban Air Pollution Monitoring Using Wireless Sensor Networks: A Comprehensive Review, **International Journal of Communication Networks and Information Security (IJCNIS)**, Vol. 9, No. 3, PP 1-10. **(Indexed in Scopus)**.
7. Kishore K Kumar and **Movva Pavani** (2017). Design of a Compact Rectangular Patch Antenna Using Defected Ground Structure, **International Journal on Communications Antenna and Propagation (IRECAP)** Vol 7, Issue 4, PP 282-289. **(Indexed in Scopus)**.