

## **FACULTY PROFILE**



### **Dr.Kavitha.B.C, M.E,Ph.D**

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**Experience:**19 years

**Research area:**Wireless Communication

### **Recent Publications:**

#### **JOURNAL PUBLICATIONS:**

1. Jeena Maria Cherian, Shiju C Chacko, Kavitha.B.C, Sunil Kumar (2015)“Design and simulation of dispersion free PCF in 1530-1565 nm wavelengths band”, International Journal for Computer Informatics and Technological Engineering(IJCITE),Volume 2,Issue 2,February 2015.ISSN (online) 2348-8557.
2. Jeena Maria Cherian, Shiju C Chacko, Kavitha.B.C, Sunil Kumar, (2015) “Atmospheric turbulence and pointing errors effects in the performance matrices of wireless optical links”, International Journal of Electronics Communication and Computer Technology(IJECCT),Volume 5 ,Issue 2 (March 2015)ISSN:2249-7838
3. Shanmuganathan, Kavitha.B.C, (2015) “Tracking and theft prevention system for two wheelers using Andriod”, International Journal of Engineering Trends and Technology (IJETT), Volume 21 Number 7 – March 2015,ISSN: 2231-5381
4. NehaSingh,Kavitha.B.C,(2015) “Performance Improvement of Wireless Lan by Efficient Improved Distributed Multi user Scheduling”, International Research Journal of Innovative Engineering(IRJIE), Volume1, Issue 3 of March 2015,ISSN: 2395-0560
5. Kavitha,BC. andVallikannu,R. (2018), “IoT Based Pollution Monitoring System using Raspberry-Pi”, International Journal of Pure and Applied Mathematics., 118(24) : 1-9 .

6. Kavitha, BC and Vallikannu, R. (2018), "IoT Model Architectures for Customized Applications: A Review. IJSST., 19(6) : 321-331.(**Scopus Indexed**)
7. Kavitha, B.C. and Vallikannu, R. (2020), "Delay-aware Concurrent Data Management Method for IoT Collaborative Mobile Edge Computing Environment", Microprocessors and Microsystems. Elsevier., 74(1) : 842-852. (**SCI Journal – WoS and Scopus Indexed**).
8. Kavitha, BC. andVallikannu, R. (2020), "Detection and Prediction of Faults in Industry using IoT Based SELF-TEL Architecture", International Journal of Solid State Technology., 63(5): 1052-1065. (**Scopus Indexed Journal**).

### **CONFERENCE PUBLICATIONS:**

1. Kavitha.BC..Valikannu.R, "Internet of Things Model Architectures for Customized Applications: A Review", 60th Annual IETE Convention, AIC-2K17, 17th & 18th September 2017, Rajagiri School of Engg& Technology, Kakkanadu, Kerala. (**Best Paper Award in IETE Convention**)
2. Kavitha.BC..Valikannu.R, "Enhancement of Industrial Safety Using IoT" 1st International Conference on Advanced Technologies in Engineering, Management and Sciences- ICATEMS'17 on 16th & 17th November 2017, Golden Valley Integrated Campus, Madanapalle, AP.
3. Kavitha.BC..Valikannu.R, "IoT Assisted worker safety: An Initiative", 12th International Conference on Intelligent Systems and Control –ISCO'18 on 5th & 6th January 2018, Karpagam College of Engineering, Coimbatore.
4. Kavitha.B.C.,Valikannu.R, "IoT Based Pollution Monitoring System using Raspberry-Pi", ICIDEST' 18, KCG College of Engineering and Technology, 17 & 18th April 2018.
5. Vallikannu R, Punithavathy Mohan, Kavitha BC, SaiAdvait Narayanan, "Reviewing the performance and quality of service of Satellite Communication and proposing the use of Multi Carrier CDMA and Speed Tracking Feature" in proceedings of International Conference on Robotics, Automation and Non-destructive evaluation (RANE 2018), July 19 & 20 2018
6. Kavitha.BC..Valikannu.R, "IoT Based Intelligent Industry Monitoring System using Raspberry-Pi", 6th IEEE International Conference on Signal Processing and Integrated Networks SPIN 2019, 7th & 8th March 2019, Amity University, Noida. (**Scopus Indexed**)
7. Kavitha. B. C, M. D. Pradeep, K. Sasidhar, C. Aditya, K. S. Sankaran and V. Kiruthika, "A Low Cost and Portable Electrocardiogram (ECG) for Predicting Arrhythmia," 2021

International Conference on Computational Performance Evaluation (ComPE), 2021(**Scopus Indexed**)

8. Kavitha, B.C., Reddy, K.V., Sankaran, K.S., Vimala Rani, G., " IOT Based Remote Health Monitoring System," *2021 International Conference on Computational Performance Evaluation (ComPE)*, 2021(**Scopus Indexed**)
9. Kiruthika, V., Krishna, G.G.R., Karthik, G., Sankaran, K.S., Kavitha, B.C., " Smart Wearable Device for Blind and Elderly People," *2021 International Conference on Computational Performance Evaluation (ComPE)*, 2021(**Scopus Indexed**)
10. Kavitha B.C, B Philip Delapierre, P VenkataVikas and ShaikThohid., "Mid-Air Gesture For Hand Control System Using Leap Motion Robot", Seventh International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2022)(**Scopus Indexed**)
11. Kavitha B.C, D SaiSathrughna, V ChaithanyaSai and A NuthanAbhiram, "Controlling Wheelchair Based on Brain Waves for Paralyzed People", Seventh International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2022) (**Scopus Indexed**)

#### **BOOK CHAPTER PUBLICATIONS:**

1. Kavitha, BC. ,Vallikannu, R., (2022), "IoT Assisted Predictive Maintenance & Worker Safety: An Initiative", Lecture Notes in Networks and Systems, 191, pp. 719–727. (**Scopus Indexed**)
2. Kavitha, BC. ,Vallikannu, R.,(2021), "Fault Detection And Data Management For IIOT", Multimedia Technologies in the Internet of Things Environment, Volume 2, Springer Nature. (**Scopus Indexed**)

#### **PATENTS GRANTED:**

1. Australian Patent granted titled "A SYSTEM AND METHOD FOR DELAY-AWARE CONCURRENT DATA MANAGEMENT FOR INDUSTRIAL IOT", Application No. 2021106046 dated 19 Aug 2021.
2. Australian Patent granted titled "ANALYSIS OF MAMMOGRAM IMAGES FOR ORGAN CANCER DETECTION USING SHAPE DESCRIPTORS", Application No. 2021106861 dated 24 Aug 2021.