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| Name of Faculty | Dr. BHASKER DAPPURI | |
| Designation | Assistant Professor | |
| Nature of Job/Appointment | Regular | |
| Date of Joining | 01-03-23 | |
| E-mail | bhaskerd_ece@cbit.ac.in | |

| Education Qualifications | Name of the Degree | Class |
|---|---|---|
| Ph.D. | Doctor of Philosophy (Wireless Networks) IIT Madras, Chennai | Awarded |
| PG | ME (Communication Engineering ) CBIT, Hyderabad | First |
| UG | B.Tech (ECE) DVRCET, Hyderabad | First |

**Work Experience**

| | |
|---|---|
| Teaching | 10 Years |
| Research | 5 Years (During PhD) |
| Industry | -- |
| Others | -- |
| Area of Specialization | Wireless Networks |
| Academic Identity | Scopus Id:  56068214400          Orcid Id: 0000-0002-0867-3539 |
| Professional Memberships | IE Fellow  F-1288578 |
| Responsibilities held at Institution Level | --- |
| Responsibilities held at Department Level | --- |
| Research Guidance | Co-Guiding 1 PhD  Student of NIT Patna Guided  8 MTech projects |
| Awards Received | --- |
| Courses Handled at Under Graduate / Post Graduate Level. | Probability Theory and Stochastic Processes, Signals and Systems, Signal and Stochastic Processes,   Digital signal processing, Digital Communication, Digital System Design |
| No. of Papers Published | National Journals – 2          International Journals – 10<br>National Conference – 1          International Conference –13 |
| Projects Carried out | --- |
| Patents | 04 |
| Technology Transfer | --- |
| Invited Speaker | 1. Invited talk at "Faculty Development Programme on Estimation Theory for Signal Processing & Cognitive Radio Networks", organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad 15 - 17 October 2015.<br>2. Invited talk at "Faculty Development Programme on Advances in Wireless Communication Systems", organized by CMR College of Engineering and Technology, Hyderabad 11 - 15 December 2017.<br>3. Invited as Jury for the International Conference titled "Signal Processing, Communications, Embedded Systems and VLSI Technologies" (ICSPCET-2018), organized by Malla Reddy Engineering College, Hyderabad 12 April, 2018.<br>4. Invited talk at "FDP on Cellular Mobile Communication Networks", organized by Geethanjali College of Engineering \& Technology, Hyderabad 25 - 30 June 2018.<br>5. Invited talk at One Week Faculty Development Programme on "Advanced Communication Technologies and It's Research Issues" |

(ACTRI-18), organized by CMR Technical Campus, Hyderabad 28th June 2018 – 2nd July 2018.

6. Invited talk at "FDP on "5G and GNSS Positioning"", organized by Geethanjali College of Engineering \& Technology, Hyderabad 17 - 22 June 2019.

7. Invited talk on "Knowledge Sharing Session on Recent Trends and Its Application in Electronics", organized by GSt. Martin's Engineering College, Hyderabad 07 May 2020.

8. Invited talk at AICTE sponsored STTP on "Advances in Wireless Technology and Telecommunication", organized by Geethanjali College of Engineering \& Technology, Hyderabad 3 September, 2020.

9. Session Chiar for the conference titled" 7th International Conference on Computing in Engineering and Technology", organized by Dr. Babasaheb Ambedkar Technological University, Maharashtra 12-13 February, 2022.

10. Invited talk on "Optimization Technique for Entrepreneurship Development", organized by Malla Reddy Engineering College (A), Hyderabad 14 May, 2022.

**No. of Books/Chapter Published with details**

1. Amjath Ali, A., Suman Mishra, and Bhasker Dappuri. "Breast cancer classification using tetrolet transform based energy features and K-nearest neighbour classifier." Recent Trends and Advances in Artificial Intelligence and Internet of Things (2020): 39-46. (Scopus Indexed)

2. Dappuri, Bhasker, Malothu Amru, and Allam Mahesh Venkatanaga. "A Stable Routing Algorithm Based on Link Prediction Method for Clustered." Recent Trends and Advances in Artificial Intelligence and Internet of Things 172 (2019): 85. (Scopus Indexed)

3. Tamilselvi, M., Bhasker Dappuri, BR Tapas Bapu, and E. Baburaj. "A Stable Architecture for IoT-Enabled Medical System Software-Defined Edge Computing." Renewable Energy with IoT and Biomedical Applications:

4. Bhasker Dappuri, Mohan Dholvan, Parvatham Satish, Syedakabar Signal and Systems, Scientific International Publishing House, ISBN: 978-93-5625-077-2.

**Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).**

1. "Simulation of Advanced Networks using NS2 (WSAN'11)", Dec. 2-3, 2011, conducted by Department of Information Technology, MIT Campus, Anna University.

2. "International Conference on Signal Processing and Communications", 22-25 July, 2012, organized by Indian Institute of Science, Bangalore.

3. Workshop on "TV White Spaces and Cognitive Radio", Dec. 16-17, 2012, organized by Department of Electrical Engineering, IIT Bombay.

4. School on stochastic processes in engineering, at IIT Bombay during Mar 10-16, 2013, and co-organized with IISc Mathematics.

5. Workshop on "Software Defined Radio For Real-time Communication and Signal Processing", July 26-28, 2013 , organized by Department of CEN & ECE, Amrita School of Engineering, Coimbatore.

6. Ten day Faculty Development Programme on "English and Communication Skills", June 8-19, 2015, organized by H \& S Department, CVR college of Engineering, Hyderabad.

7. HyWIT 2018: Hyderabad Workshop on Information Theory 15th and 22nd Sept 2018 at IIIT Hyderabad 16th and 23rd Sept 2018 at IIT Hyderabad.

8. HyWIT 2019: Hyderabad Workshop on Information Theory, 7th and 8th Sept 2019 at IIT Hyderabad 14th and 15th Sept 2019 at IIIT Hyderabad

9. One Week MATLAB Project Course on 5G Wireless Technologies: Massive MIMO, mmWave, NOMA, Full Duplex, OFDM/FBMC, NB-IoT July 8 th to 14th , 2019, Organized by Prof. Aditya K. Jagannatham, EE Department, IIT Kanpur in association with E & C Dept., Ramaiah Institute of Technology, Bengaluru

10. Faculty Development Program on Data Science, conducted by TASk & EXCELR, from July 1st, 2020 to July 24th, 2020.

11. Short Term Training Program on "Integrating Internet of Things with Field Programmable Gate Arrays and Silicon on Chip", organized by CMR Engineering College, from 19th to 24th July, 2021.
12. A Three day FDP on "Essentials of 5G Communication" conducted by PVP Siddhartha Institute of Technology, from 26th to 28th August, 2021.
13. IP Awareness/Training program under National Intellectual Property Awareness Mission (NIPAM) on February 12, 2022, organized by Intellectual Property Office, India.
14. A Ten day FDP on "Mathematical Relevance to Artificial Intelligence and Machine Learning" conducted by E&ICT Academy NIT Warangal, from 7th to 17th February, 2022.
15. A Ten day FDP on "AI/ML Algorithms for Signal and Image Processing Applications" conducted by E&ICT Academy NIT Warangal, from 21st to 31st March, 2022.
16. A National Level Two Day FDP on "5G Antenna Design with AIML Applications using HFSS" conducted by E&ICT Academy SMEC, from 27th to 28 May, 2022.
17. Successfully participated in IP Awareness/Training program under National Intellectual Property Awareness Mission (NIPAM) on July 12, 2022.
18. Successfully completed one week skill development training program on "Patent filing other proceedings, Patent Specification, Claims writing, Patent Search" conducted by RGNIIPM, Nagpur from 22nd to 26th August, 2022.
19. Successfully participated in the Seventh India School on Internet Governance (inSIG2022), organized at the IIIT Hyderabad, India during 25-28 September 2022.
20. Conducted FDP on "Refresher course on Electronic Communication ", 19 – 21 May, 2017
21. Co-Coordinator for "Advance analysis of Wireless Communication and Soft Computing" 27 January to 1st February, 2020.
22. Co-Coordinator for one week Short Term Training Program on "An Overview of current trends and research challenges in image processing using Deep Learning" , Dec. 14-19, Jan. 04-09, Jan. 18-23, 2021.

## Details of Journal Publications/ Conferences

### International Journal publications

1. Uthayakumar, G. S., Bhasker Dappuri, M. Vanitha, R. Suganthi, V. Savithiri, and S. Kamatchi. "Design criteria for enhanced energy constraint MAC protocol for WSN." Measurement: Sensors 25 (2023): 100642. (Elsevier), SCI, Q3, Scopus Indexed

2. Pitchai, R., Dappuri, B., Pramila, P. V., Vidhyalakshmi, M., Shanthi, S., Alonazi, W. B., ... & Beyene, I. (2022). An Artificial Intelligence-Based Bio-Medical Stroke Prediction and Analytical System Using a Machine Learning Approach. Computational Intelligence and Neuroscience, 2022. (Hindawi), SCI, Q1, Scopus Indexed

3. Srinivas, K., Singh, L., Chavva, S. R., Dappuri, B., Chandrasekaran, S., & Qamar, S. (2022). Multi-modal cyber security based object detection by classification using deep learning and background suppression techniques. Computers and Electrical Engineering, 103, 108333. (Elsevier), SCI, Q1, Scopus Indexed

4. Ramakrishnam Raju, S. V. S., Dappuri, B., Ravi Kiran Varma, P., Yachamaneni, M., Verghese, D., & Mishra, M. K. (2022). Design and Implementation of Smart Hydroponics Farming Using IoT-Based AI Controller with Mobile Application System. Journal of Nanomaterials, 2022. (Hindawi), SCI, Q2, Scopus Indexed

5. Dappuri, Bhasker, M. Purnachandra Rao, and Madhu Babu Sikha. "Non-blind RGB watermarking approach using SVD in translation invariant wavelet space with enhanced Grey-wolf optimizer." Multimedia Tools and Applications 79 (2020): 31103-31124. (Springer), SCI, Q1, Scopus Indexed

6.  Dappuri, Bhasker, and T. G. Venkatesh. "Design and performance analysis of multichannel MAC protocol for cognitive WLAN." IEEE Transactions on Vehicular Technology 67, no. 6 (2018): 5317-5330. (IEEE), SCI, Q1, Scopus Indexed

7.  Dappuri, Bhasker, and T. G. Venkatesh. "Design and performance analysis of cognitive WLAN MAC protocol." IEEE Systems Journal 12, no. 3 (2017): 2261-2272. (IEEE), SCI, Q1, Scopus Indexed

8.  Dappuri, Bhasker, Suman Mishra, and N. Lakshmi Devi. "Effective Segmentation Of Mr Brain Images Using Hybrid Clustering Mechanism And Savitzky-Golay Filter." (Web of Science)

9.  Dappuri, Bhasker, Madhu Babu Sikha, T. G. Venkatesh, and Navya Vuppalapati. "An Analytical Framework for Cooperative Cognitive Radio Network for Spectrum Leasing/Sharing."

10. Sitaram A, Venkata, Arun George, and Bhasker Dappuri. "Performance evaluation of the QOS provisioning ability of IEEE 802.11 e WLAN standard for multimedia traffic." arXiv e-prints (2021): arXiv-2112.

11. Mohd Hafeez Pasha1 .Bhasker Dappuri, " Automatic Energy Saving System Using RFID Tag in schools or colleges ", International Journal of Modern Engineering Research, 2015, ISSN:2249-6645,UGC

12. Bhasker Dappuri, " Implementation of Text Dependent Human Voice Recognition using RSA Preprocessing with LPC-DWT Features ", Journal of Fundamental Comparative Research, 2022, ISSN: 2277-7067, Vol. VIII, No. 1(XXXVI) : 2022, UGC

13. Bhasker Dappuri, " Segmentation and Classification of Dermoscopic Images using Back Propagated Artificial Neural Networks", Journal of the Maharaja Sayajirao University of Baroda, 2020, ISSN:0025-0422, Volume-54, No.1(I), UGC

**International Conference Publications**

1.  Dappuri, B., Tamilselvi, M., Baburaj, E., & Omkumar, S. (2022, October). Biosignal electrode based patient health monitoring system. In AIP Conference Proceedings (Vol. 2519, No. 1, p. 030033). AIP Publishing LLC. (Scopus Indexed)

2.  Pradeep, Sunku, and Bhasker Dappuri. "FPGA based area efficient implementation of DDR SDRAM memory controller using verilog HDL." (2022): 352-356.(IEEE)

3.  Vemuri, Satya Srinivas, and Bhasker Dappuri. "Walker-delta constellation design for LEO-based navigation using small satellites." (2022): 250-253. (IEEE)

4.  Kalpana, Ganapuram, Bhasker Dappuri, and Suman Mishra. "Secure image watermarking using MLDWT and SVD for secure medical data transmission model in healthcare systems." (2022): 62-66. (IEEE)

5.  Tamilselvi, M., Bhasker Dappuri, BR Tapas Bapu, and E. Baburaj. "Synthesis of Images from SMRI through Extreme Integrand Unstable Learning." In Journal of Physics: Conference Series, vol. 1964, no. 6, p. 062107. IOP Publishing, 2021. (Scopus Indexed)

6.  Baburaj, E., BR Tapas Bapu, M. Tamilselvi, and Bhasker Dappuri. "Smart Autonomous Car Parking For the Modern Vehicles." In Journal of Physics: Conference Series, vol. 1964, no. 4, p. 042070. IOP Publishing, 2021. (Scopus Indexed)

7.  Dappuri, Bhasker, Vidadala Srija, and Basava Dhanne. "Palm print Biometric Authentication System for Security Applications." In IOP Conference Series: Materials Science and Engineering, vol. 981, no. 4, p. 042083. IOP Publishing, 2020. (Scopus Indexed)

8.  Kar, Pushpendu, and Bhasker Dappuri. "Site Survey and Radio Frequency Planning for the Deployment of Next Generation WLAN." In 2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), pp. 1-4. IEEE, 2018. (IEEE)  (Scopus Indexed)

9.  Dappuri, Bhasker, Madhu Babu Sikha, and T. G. Venkatesh. "Preemptive priority mechanism with hybrid spectrum sensing for cognitive radio networks." In 2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI), pp. 359-363. IEEE, 2017. (IEEE) (Scopus Indexed)

10. Dappuri, B., & Venkatesh, T. G. (2014, September). IEEE 802.11 DCF MAC protocol for cognitive radio networks: Cooperative basic access Vs RTS/CTS. In 2014 14th International Symposium on Communications and Information Technologies (ISCIT) (pp. 45-50). (IEEE) (Scopus Indexed)

11. Arun, I. B., T. G. Venkatesh, and Bhasker Dappuri. "QoS provisioning with adaptive backoff algorithm for IEEE 802.11 ac under multipacket reception." In 2014 9th International Symposium on Communication Systems, Networks & Digital Sign (CSNDSP), pp. 826-830. IEEE, 2014. (IEEE) (Scopus Indexed)

12. Thomas, Vivin, T. G. Venkatesh, and Bhasker Dappuri. "A MAC protocol for implementing differential services over Cognitive Radio Networks." In 2014 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), pp. 1-6. IEEE, 2014. (IEEE) (Scopus Indexed)

13. Dappuri, Bhasker, T. G. Venkatesh, and Vivin Thomas. "MAC protocols for cognitive radio networks with passive and active primary users." In 2013 International Conference on Wireless Communications and Signal Processing, pp. 1-7. IEEE, 2013. (IEEE) (Scopus Indexed)

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