

Dr. Hima Bindu Valiveti

Areas of Interest

Computer Networks, Wireless Communications and Networks, Signal Processing, Analog and Digital Communications, Probability Theory and Stochastic Processes, AI based signal processing.

Education

Ph.D., GITAM (Deemed to be University), 2018

ME, RMIT University, Melbourne, Australia, 2005

B Tech, JNTU Hyderabad, 2002

Academic/Industrial Experience

- 1 Professor, Electronics and Communication Engineering GRIET, Sep 2018-Present
- 2 Research Scholar, GITAM (Deemed to be University), and 2012-2018
- 3 Assistant Professor, Electronics and Communication Engineering, GRIET, June 2011-Sep 2018
- 4 Associate Professor Electronics and Communication Engineering, SVIT, Hyderabad March 2010- June 2011
- 5 Associate Professor, Electronics and Communication Engineering, RRS College of Engineering and Technology, July 2007- Feb. 2010
- 6 Manual Test Engineer for Hermis Precisa Australia, Melbourne, Victoria, Australia, April 2004-June 2007

Publications (Selected)

1. Koduru, A., Valiveti, H. B., & Budati, A. K. (2020). Feature extraction algorithms to improve the speech emotion recognition rate. *International Journal of Speech Technology*, 23(1), 45-55.
2. **Valiveti, H. B.**, & Kumar, B. A. (2020). Handoff strategies between wireless fidelity to light fidelity systems for improving video streaming in high-speed vehicular networks. *International Journal of Communication Systems*, e4285.
3. Budati, A. K., & **Valiveti, H.B.** (2019). Identify the user presence by GLRT and NP detection criteria in cognitive radio spectrum sensing. *International Journal of Communication Systems*, e4142.
4. **Valiveti, H. B.**, & Polipalli, T. R. (2019). Performance analysis of SLTC-D2D handover mechanism in software-defined networks. *International Journal of Computers and Applications*, 41(4), 245-254.
5. Suseela, R. S. U., Murthy, K. S. N., & **Valiveti, H. B** (2019). Performance Analysis of Cross-layer Efficient Selfishness Prevention Routing Protocol for the Dynamic CR Networks. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8 Issue-9S3

6. Padidam Nikhila, **Valiveti, H. B.**, R S Uma Suseela, Ch Pratyusha Chowdari (2019). Improved Selection of Separate V2v Communication Assets for Lte, *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-8 Issue-6
7. **Valiveti, H. B.** (2018). Energy efficient handover mechanism for device to device communication in a framework based on software defined networking principles.
8. **Valiveti, H. B.**, & Polipalli, T. R. (2018). Hierarchy-based knapsack approach for network selection in HetNets. *International Journal of Computer Aided Engineering and Technology*, 10(5), 599-608.
9. **Valiveti, H. B.**, & Rao, P. T. (2017). EHSD: an exemplary handover scheme during D2D communication based on decentralization of SDN. *Wireless Personal Communications*, 94(4), 2393-2416.
10. Nakirikanti, Pavan Kumar, and **Valiveti, H. B.** "Automatic Measuring and Recompense System for Monitoring Health Management Process For Automobiles." *IJSEAT* 2.8 (2014): 286-291.

International Conferences attended

1. Swetha, N., Chaitanya, D. L., **Valiveti, H.B.**, & Kumar, B. A. (2019, August). Malicious User Detection in Cooperative Sensing Environment Using Robust Distance. In *International Conference on Inventive Computation Technologies* (pp. 104-114). Springer, Cham.
2. **Valiveti, H. B.**, & Polipalli, T. R. (2017, October). Light fidelity handoff mechanism for content streaming in high speed rail networks. In *2017 8th IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)* (pp. 488-492). IEEE.
3. **Valiveti, H. B.**, & Polipalli, T. R. (2016, June). D2D Handoff Mechanism based on SDN principles in *Proceedings of the 2016 ISSE Conference on Large Scale Multi-disciplinary Systems of National Significance (LAMSYS) ISSE Sriharikota-Chennai Chapter and Satish Dhavan Space Center SHAR,ISRO June 24th & 25th 2016*

Reviewer (Selected)

- 1 Wireless Personal Communications (WPC), Springer
- 2 International Journal of Intelligent Engineering Informatics (IJIEI), Inderscience Publishers
- 3 International Journal of Pervasive Computing and Communications (IJPCC), Emerald Publishing
- 4 Optimal Control, Applications and Methods, Wiley publisher, John Wiley & Sons Ltd

Workshops attended (selected)

1. Machine learning for Signal Processing and VLSI (05-08 June 2020), Centre for Artificial Intelligence and Machine Learning, Department of Electronics and Communication Engineering, Anurag university, Hyderabad, India
2. One Week Online AICTE Recognized Faculty Development Programme on Technological Interventions using Wireless Communication (18-22 May 2020), organized by Electronics and Communication Engineering Department NITTTR, Chandigarh.
3. One week FDP on Moodle (LMS) organized by Dr. G Y Patrikar College, MGM University, Aurangabad in association with Spoken tutorial IIT Bombay.
4. Participated in MoodleMoot India 2018 conference (29-30 November 2018), Central University, Hyderabad, India.
5. AICTE approved FDP201X on Pedagogy for Online and Blended Teaching-Learning Process one month in 2018
6. AICTE approved FDP101X on Foundation Program in ICT for Education one month in 2018
7. Two weeks training on LABVIEW at GRIET by NI in 2016
8. ET601Tx: Educational Technology for Engineering Teachers a course of study offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay (07 January - 07 March 2016)
9. AICTE approved two months Technical Communication workshop facilitated by IIT Bombay (October 2015-December 2015)
10. AICTE approved, IIT Bombay conducted Two-week ISTE STTP on Signals and Systems, July 2015
11. WHS791x: Technical Communication for Scientists and Engineers a course of study offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay (8 October - 18 November 2015)
12. IIT Kanpur workshop on Detection theory for communications and signal processing, October 2015
13. Analog Electronics (Remote workshop by IIT Kharagpur), November 2013
14. Aakash for Education (Remote workshop) conducted by IIT Bombay, November 2012

Workshops conducted (selected)

1. Coordinator for FDP on Recent trends in Computer Architecture, VLSI and Embedded Systems, 8 June 2020 to 13 June 2020
2. Challenge ACI, a nationwide Hackathon, October 2018 and 2019
3. Case Study based Workshop on IOT and Machine Learning, February 2018
4. MATLAB to HDL, March 2017
5. Building your own App using Arduino, January 2017
6. Embedded systems workshop using TivaC, Orbit Boost, December 2016
7. Advitiya 2016, Share Your Projects and Ideas under ISF-IETE, September 2016
8. Estimation theory for Signal Processing & Cognitive Radio Networks, October 2015

Awards

- 1 Qualified in Faculty Eligibility Test (FET) under JNTU-H, 2013
- 2 Top 5% in NPTEL course on Principles of Signals and Systems, IIT Kanpur, 2017
- 3 Appreciation certificate from Police Communications Organization, TSPA for lectures delivered to SCT PC/SI (Communications) undergoing basic induction training (2017-18, 2018-19)

Funding

Consultancy

1. Name of the funding agency: All India Council for Technical Education (AICTE)

Subject: To organize conference in online mode under the scheme Grant of Conference (GOC)

Title of Conference: International Conference on Advances in Communications, Computing and Embedded Systems

Role: Coordinator

Amount granted: Rs. 1,48,667/-

Date of Conference: 18-19 September 2020

2. Name of the funding agency: Ample Auto Tech Pvt. Ltd.

Objective: Research proposal titled “Performance Evaluation of the Reliability of Vehicle Suspension system using Software Applications, Cloud and Machine Learning algorithms”

Role: Principal Investigator

Amount Funded: Rs.24,18,000/- for a period of five years is quoted.

Starting Period: January 2020