

Personal Information

Name	Dr. V.Hindumathi
Years of Experience	Teaching: 17 Years 10 Months
Email Id	hindumathi.v@bvrithyderabad.edu.in
Areas of Specialization	Wireless Communications



Educational Qualifications

Ph.D	ECE	Wireless communications
PG Degree	M.Tech	Wireless & Mobile Communications
UG Degree	B.Tech	Electronics & Communication Engineering

Patents

1. Title of the invention: Adaptive Bandwidth Control to Improve Energy Fairness in 5g Wireless Sensor Network
Application No. 202111050944 A
Publication Date: 19/11/2021
2. Title of the invention: A Beverage Dispensing Unit (Design Patent)
Application No. 347553-001.

Papers Published

International Journal Publications

3. V. Hindumathi and Dr. K. Ramalinga Reddy, “ A Proficient Fair Resource Allocation in the channel of Multiuser Orthogonal Frequency Division Multiplexing using a Novel Hybrid Bat-Krill Herd Optimization”, published in Wireless Personal Communications (WPC), Vol 10, No.2, 21stApril 2021, pp 1449-1473.
4. V. Hindumathi and Nasreen Begum et al., “ PC Wireless control with Eyeblick” , published in Journal of Embedded Systems and Processing, Vol.5, Issue 2, (May-August 2020), pp 5-11.
5. V. Hindumathi and M.Yoshitha et al., “Bank Locker Security with Finger Print and Image capture ”, published in International Journal of Electronic Design Engineering Vol.5, Issue 2, June 2019, pp 19-24.

6. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Delay aware optimal resource allocation in MU MIMO-OFDM using enhanced spider monkey optimization*” , published in International Journal of Communication Networks and Information Security (IJCNIS), Vol 10, No.2, August 2018, pp 410-418.
7. V. Hindumathi and D.Mounika et al., “*Image Denoising using Wavelet Transformation and Principal Component Analysis using Local pixel Grouping* ” , published in IOSR Journal of Electronics and communication engineering(IOSR-JECE) Vol.12, Issue 1, Ver I (Jan-Feb 2017) pp 28-35.
8. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Adaptive Priority Based Fair-Resource Allocation for MIMO-OFDM multicast networks*” , Published in SCOPUS indexed INDERSCIENCE Publishers , International Journal of Networking and Virtual Organization, Volume 20, No 1, August 2019, ISSN online: 1741-5225; ISSN print: 1470-9503, pp-73-89.
9. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Adaptive Resource Allocation for wireless MIMO-OFDMA Systems*” published in IOSR Journal of Electronics and communication engineering (IOSR-JECE) Vol.10, Issue 3, Ver II (May-June 2015), e-ISSN: 2278-2834,p- ISSN: 2278-8735, pp 69-78 .
10. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Performance Analysis of OFDM by using different Modulation Techniques*” Published in International Journal of Engineering Research and Development, Vol.3, Issue 7, September 2012 ,pp 7-10.
11. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Enhancement of High data rates in wireless communication Networks using MIMO-OFDM technology*” published in International Journal of Engineering Research and Technology Vol.1, Issue 5, July 2012 pp 1-7.

International Conference Publications

1. M.Praveena, G.Ramalakshmi and Dr.V.Hindumathi, ” *A Study on the Effectiveness of Formative Assessment Activities on Student Learning* “,presented in the proceedings of the 6th International Conference on Advancements of Learning Methods in Teaching and Education (ICALMTE-2022) organized by International Research and Development Center for Publication (IRDPC) during 6th and 7th 2022.
2. V. Hindumathi, et al.,” *Adaptive Resource Allocation in Wi-MAX Networks for Improved Quality of Service (QoS)*’ presented in 7th International Conference on information System Design and Intelligent Applications (INDIA - 2022) organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad during 25th and 26th February 2022.

3. Vasu Deva Reddy Tatiparthi, Madhava Rao K, Dr. Santhosh Veeramalla and Hindumathi V, “*Energy efficient memory architecture for High performance and low power applications under sub- threshold regime*”, published in the proceedings of the 7th International Conference on information System Design and Intelligent Applications (INDIA - 2022) organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad during 25th and 26th February 2022
4. V. Hindumathi, et al., “*Empirical Evaluation of Blockchain Based Remote data Communication System over Wireless Sensor Network (WSN)*”, published in International Conference on Technological Advancements and Innovation (ICTAI-2021), Amity University, Amity University Tashkent Campus, Tashkent, Uzbekistan. Date(s): 10-12, Nov, 2021, <https://doi.org/10.1109/ICTAI53825.2021.9673227>
5. V. Hindumathi and Sahithi et al., “*Python based extinct animal species detection and classification for forest monitoring*”, published in the proceedings of the “2nd International Conference on Engineering and Advancement in Technology-2021 organized by Lord's Institute of Engineering and Technology, Hyderabad during 16th to 17th July 2021, ISBN no. 978-93-5406-579-8.
6. V. Hindumathi and Dr. K. Ramalinga Reddy, “*A Heuristic Recurrent Neural Network Load-balancing model (HRNNL)for OFDM-CRN*”, published in the proceedings of the “ International Conference on Computing Communication and Electrical Technologies (ICCCET-2019) organized by G.Narayanamma Institute of Technology and Science (for women), Hyderabad during 29th to 30th August 2019, ISBN no. 978-93-89107-33-3.
7. V. Hindumathi and Dr. K. Ramalinga Reddy “*Improvement of Efficiency of MIMO-OFDM System using Channel Adaptive Subcarriers Allocation Algorithm with Equal power*”, IEEE sponsored International Conference on Inventive Computation Technologies , at RVS Technical Campus, Coimbatore, India, 26-27, August 2016 , Electronic ISBN: 978-1-5090-1285-5, Print on Demand(PoD) ISBN: 978-1-5090-1286-2.
8. V. Hindumathi and Dr. K. Ramalinga Reddy, “*Physical layer based Multicast scheduling in MIMO-OFDMA systems: A Survey*”, published in the proceedings of the 2nd International Conference on Electrical, Electronics, Engineering trends, Communication, Optimization and Sciences(EEECOS)- 2015 at Sri Sunflower college of Engineering and Technology, Vijayawada during 28th to 30th March 2015.

FDPs Attended

1. Attended online elementary FDP on “ Recent and Emerging Trends in Wireless Communication: 4G and 5G Technologies” sponsored by Ministry of Electronics and Information Technology (MeitY) GoI, organized by E&ICT Academy, NIT Warangal

and G.Narayanamma Institute of Technology and Science (for women) ,Hyderabad during 6th September to 16th September-2021.

2. Attended online elementary FDP on “ Artificial Intelligence and Machine Learning : Real time Applications” sponsored by Ministry of Electronics and Information Technology (MeitY) GoI, organized by E&ICT Academy, NIT Warangal and G.Narayanamma Institute of Technology and Science (for women) ,Hyderabad during 20th September to 30th September-2021.
3. Attended AICTE Training and Learning (ATAL) Academy online elementary FDP on “ Challenges in adaptive Machine Learning towards 5G / 6G Communications” from 09th August to 13th August -2021 at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad.
4. One week Online AICTE-ISTE approved Orientation / Refresher Programme on “Opportunity, Challenges and Research Trends in WC (Wireless Communication)” held during 24th May to 29th May 2021 organized by Guru Nanak Technical Campus, Hyderabad, Telangana.
5. Two day Faculty Development Program on “Fiddle with virtual components” from 4th September to 5th September 2020 organized by Department of ECE, BVRIT HYDERABAD College of Engineering for Women, Hyderabad.
6. One week Online STTP program on “wireless communications-Machine learning Algorithms” from 27th July to 1st August 2020 organized by Department of ECE, Vardhamaan College of Engineering, Hyderabad .
7. One week Online International Faculty development program on “Wireless Communications and Mobile Technologies” from 6th to 11th July 2020 organized by Department of ECE, BVRIT HYDERABAD College of Engineering for women, Hyderabad in association with QCARES, Qualcomm.
8. Five Day Online International Faculty development program on “Advancement in Communication technologies with Simulation Tools” from 1st to 5th July 2020 organized by Department of ECE, Vishnu Institute of Technology, Bhimavaram.
9. One week FDP on “ Simulation of Data Communications and Networks using NS2 and Wire SHARK” from 1st to 6th June 2020 organized by Department of ECE, VBIT, Hyderabad.
10. Five Day FDP on “Recent Communication Tools and Its Application” from 19th to 23rd May 2020 organized by Department of ECE, St.Martin’s Engineering College, Hyderabad.

11. Three Day faculty development program on “Machine learning & Its Applications” from 28th to 30th September 2019 organized by Department of EEE,ECE,CSE&IT, BVRIT HYDERABAD College of Engineering for women, Hyderabad.
12. Three Day faculty development program on “Professional Etiquette & Emotional Intelligence” organized by Department of Basic Sciences & Humanities from 8th to 10th July 2019 at BVRIT HYDERABAD College of Engineering for women, Hyderabad.
13. Two Day Faculty Development Program on “Real time applications of communication theory” from 8th to 9th July 2017, organized by BVRITH in association with Q cares team of Qualcomm at VEDIC.
14. One week Faculty Development Program on “Open Source Software through Spoken tutorials”, IIT Bombay at BVRIT Hyderabad College of Engineering for Women from 4th to 10th Nov 2016.

Workshops Attended

1. Two day workshop on “Research Methodology in Research”, and "Publication Ethics -Know Your Right Journal” organized by Department of R&D, IEEE BVRITH, GRSS SB Chapter in collaboration with CIS/GRSS Jt. Chapter, IEEE Hyderabad Section from 28th to 29th May 2020.
2. Three day workshop on “Immersive Instructional Technologies (IIT)” Program at VEDIC, SVES from 17th to 19th September 2019.
3. One day workshop on “Unconscious Bias in the workplace” at VEDIC, SVES on 8th August 2019.
4. One day workshop on “Think – Technology- Transform” Level 1 Program at VEDIC, SVES on 21st June 2018.
5. Three day workshop on “Inspire – Impact- Introspect – Leadership” Program at VEDIC, SVES from 9th to 11th November 2017.
6. One day G. Narayanamma Memorial Lecture on Future Trends in Wireless Communications on 1st November 2017 at GNITS, Hyderabad.
7. Two Day workshop on “Advanced Engineering Optimization through Intelligent Techniques” at VEDIC from 21-22nd October 2016.

Workshops Organized

1. Organized a 2-day workshop on “Cyber Security & Ethical Hacking” for III B.Tech ECE students on 6th and 7th January 2020 in association with Indian servers.
2. Organized a 2-day workshop on “Cyber Security & Malware Analysis” for III B.Tech ECE students on 7th and 9th March 2018 in association with Indian servers.
3. Organized a 2-day workshop on “PCB Designing and Fabrication” for II B.Tech ECE students from 22nd to 23rd August 2016 in association with ARMTRONICS.

Events Organized

1. Organized an Industrial Visit to HAL , Hyderabad on 16th December 2021 for III ECE (B) Students
2. Organized a Technology week event for all students of BVRITH on 23rd May 2020.
3. Organized a Technical quiz event - Prashnothari-VI for III year students on 11th September 2018. .
4. Organized an Industrial Visit to INCOIS (Indian National Centre for Ocean information Services), Pragathi Nagar, Hyderabad on 27th July 2018 for III ECE Students.
5. Organized an Industrial Visit to BSNL –RTTC , Hyderabad on 26th September 2019 for III ECE Students

Professional Memberships:

- Life Member of ISTE (The Indian Society for Technical Education) -Number: LM 47594
- Member of IAENG (International Association of Engineers) --- Number: 184941.

Certifications

- Certification on “Principles of Communication Systems -1” organized by NPTEL.
- Certification on “Stress Management” organized by NPTEL.
- Certification on “Introduction to Technology Enabled Learning “ organized by MOOCS in association with Commonwealth of Learning and Athabasca University, Canada.
- Certification on “Introduction to Internet of Things” organized by NPTEL.
- Udey Certification on “Fuzzy Logic: Quick start guide”
- Udey Certification on “Introduction to Wireless Communications”
- Udey Certification on “Outcome Based Education and Academic Quality Assurance”
- Coursera Certification on “Fundamentals of Network Communication”
- Coursera Certification on “Introduction to the Internet of Things and Embedded Systems”

- Coursera Certification on “Wireless Communications for Everybody”
- Coursera Certification on “A life of Happiness and Fulfillment”
- edX Certification on “How to Learn Online”
- Coursera Certification on “Creative Thinking: Techniques and Tools for success”
- Coursera Certification on “Peer to Peer Protocols and Local Area Networks”
- Udemy Certification on “Matlab Course for Wireless Communication Engineering ”
- Coursera Certification on “AI For Everyone”