



Dr Sandhya Rachamalla

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Address: Hyderabad ,Telangana,India - 500007

Expertise

Telecommunications

Electronics and Communication Engineering, Wireless Sensor Networks

Work experience

1. Osmania University 2021 — Present

Associate Professor
Hyderabad

2. Osmania University 2018 — 2021

Assistant Professor (Senior Grade)
Hyderabad

3. Osmania University 2013 — 2018

Assistant Professor - Selection Grade
Hyderabad

4. Sreenidhi Institute of Science and Technology 2009 — 2013

Associate Professor
Hyderabad

5. Sreenidhi Institute of Science and Technology 2004 — 2009

Assistant Professor
Hyderabad

Education

1. Ph.D - 2018

JNTUH College of Engineering Hyderabad

2. M.Tech - 2009

JNTUA

3. B.Tech - 2004

JNTUH College of Engineering Hyderabad

Honours and Awards

1. Best Teacher Award - 2010

SNIST, Hyderabad

2. Best Teacher Award - 2009

SNIST, Hyderabad

3. Best Teacher Award - 2006

SNIST, Hyderabad

Membership In Professional Bodies

1. IETE, 2022

Fellow

Publication

1. A Dual-Band Bandpass Filter using Resonators

Yennamalla, Kamalaker, and Sandhya Rachamalla

2024 IEEE Wireless Antenna and Microwave Symposium (WAMS), Volume , Year 2024, Pages

2. A MIMO Antenna Designed for Wi-Fi/5G/WLAN Band Applications that operates in Multiple bands and utilizes Two elements

Ghazala Firdous, Dr.Sandhya Rachamalla and Ahmad Farid Sulaimani,

JECA, UGC care journal , Volume 14, Year 2024, Pages 11-23

3. Performance analysis of compact E-Shaped Microstrip Patch Antenna for Wireless Body Area Network

Mohammad Shareefuddin Tabrez and Dr.R.Sandhya

International Journal Of Advance Research And Innovative Ideas In Education , Volume 10, Year 2024, Pages 1067-1078

4. Congestion Control in Wireless Sensor Networks- A Survey

Dr.Sandhya Rachamalla

IJSEA, Volume 13, Year 2024, Pages 82-85

5. A Survey on Machine Learning Applications in VLSI CAD

K.Shekhar and Dr.Sandhya Rachamalla,

IJCSES, Volume 15, Year 2024, Pages 1-9

6. Performance Analysis of Slotted Waveguide Antenna for High Power Microwave Applications

V.Sai Kiran and Dr.Sandhya Rachamalla

IJFMR, UGC care Journal, Volume 5, Year 2023, Pages 1-8

7. Design of 9-10 GHz Microstrip Bandpass Filter for Radar Applications

N.Chandu and Dr.Sandhya Rachamalla

IJRES, Volume 11, Year 2023, Pages 223-228

8. Aperture-Fed Microstrip Antenna with Wideband and Improved Radiation Patterns

Rekha Gudepu and Dr. Sandhya Rachamalla

IJRTI, Volume 7, Year 2022, Pages 138-142

9. Design and Analysis of Insetcut Feed & Aperture Coupled Feed Microstrip Patch Antenna

P.Varun Kumar Reddy and Dr.R.Sandhya

10. RF amplifier for 5G applications

Madhu Sudhan Reddy and Dr. Sandhya Rachamalla
IJLTES, Volume 13, Year 2021, Pages 1-7

11. Travelling Wave Slotted Waveguide Antenna for Ku band applications using SIW

Abbireddyguru Sivanjaneya, Sandhya Rachamalla, K.Sambhasiva Rao, Bharath K, Srujana V N
Elixir International Journal of Electrical Engineering, Volume 150, Year 2021, Pages 55113-55115

12. Inset-fed Cantor set Fractal Multiband antenna design

Doudu Vamshi Krishna and Dr. Sandhya Rachamalla
IJLTES, Volume 12, Year 2021, Pages 1-7

13. LOS Rate estimation using Extended Kalman Filter

R.Kranthi Kumar, Sandhya Rachamalla, R.Laxman, R.Chandrakanth
Learning and Analytics in intelligent Systems, Volume 4, Year 2020, Pages 36-43

14. LOS Rate Estimation Using Extended Kalman Filter

Kranthi Kumar R.;Sandhya R.;Laxman R.;Chandrakanth A.
Learning and Analytics in Intelligent Systems, Volume 4, Year 2020, Pages 36-43

15. A C-shaped Microstrip Patch Antenna for 5G Applications

G. Idur Basha and Sandhya Rachamalla
IJLTES, Volume 7, Year 2019, Pages 12-16

16. Performance analysis of Multiband Microstrip Slotted Antenna With Defected ground

N.Ramesh and R.Sandhya
Elixir international journal, Volume 134, Year 2019, Pages 53615-53617

17. Design of multiband slot antenna using SIW technology

Malleboina R.; Sandhya Rachamalla .;Kunooru B.;Nandigama S.;Ramakrishna D.;Mondi N.
2019 IEEE Indian Conference on Antennas and Propagation, InCAP 2019, Volume , Year 2019, Pages

18. Design and Analysis of Planar Substrate Integrated Waveguide Horn Antenna

Maneela K, Sandhya Rachamalla, Srujanavahini N, Ramakrishna D
2018 IEEE Indian Conference on Antennas and Propagation, InCAP 2018, Volume , Year 2018, Pages

19. Design and analysis of a wide band dual circularly polarized dielectric resonator antenna

Sarah Sanhitha, Sandhya Rachamalla, Srujanavahini N, Ramakrishna D
2018 IEEE Indian Conference on Antennas and Propagation, InCAP 2018, Volume , Year 2018, Pages

20. Adaptive routing mechanism for real-time wireless sensor networks based on two-hop information

Rachamalla S.;Kancherla A.S.

Advances in Intelligent Systems and Computing, Volume 479, Year 2017, Pages 59-68

21. Energy-Efficient Adaptive Routing Mechanism for Real-Time Wireless Sensor Networks

Sandhya Rachamalla and Anitha Sheela Kancherla

Elixir International Journal of Electrical Engineering, Volume 91, Year 2016, Pages 38142- 38147

22. A two-hop based adaptive routing protocol for real-time wireless sensor networks

Sandhya Rachamalla and Anitha Sheela Kancherla

SpringerPlus, Volume 5, Year 2016

23. Adaptive Routing mechanism for Real-time Wireless Sensor Networks based on Two-hop information

Sandhya Rachamalla and Anitha Sheela Kancherla

Proceedings of ICICCD-2016(International Conference on Intelligent Communications, Control and Devices-2016),UPES, India, Volume , Year 2016, Pages 4

24. Power-Control Delay-Aware routing and MAC protocol for Wireless Sensor Networks

Rachamalla S.;Kancherla A.S.

ICNSC 2015 - 2015 IEEE 12th International Conference on Networking, Sensing and Control, Volume , Year 2015, Pages 527-532

25. Adaptive Routing Protocol with Power- Control mechanism for Wireless Sensor Networks

Sandhya Rachamalla and Anitha Sheela Kancherla

IJCSNS, Volume 15, Year 2015, Pages 38-45

26. Efficient broadcasting using Network Coding in Adhoc Wireless Networks

Sandhya Rachamalla and Anitha Sheela Kancherla

Proceedings of National Conference on RF Wireless Communication and Signal Processing (NCRFWCSP 2014),, Volume , Year 2014, Pages 1-5

27. FPGA Implementation of (15,k) binary BCH encoder for multiple error correction control using VHDL

Archana Soman and Sandhya Rachamalla

IJTES, Volume 1, Year 2013, Pages 481-486

28. Routing Protocols for Wireless Sensor Networks- A survey

Sandhya Rachamalla and Anitha Sheela Kancherla

Proceedings of 7th International Conference on Communications and Information Technology (CIT'13), Cambridge, MA, USA, Volume , Year 2013, Pages 96-101

29. A Survey of Real-Time Routing Protocols for Wireless Sensor Networks

Sandhya Rachamalla and Anitha Sheela Kancherla

IJCSNS, Volume 4, Year 2013, Pages 35-44

30. **Performance Analysis of MAC protocols for Wireless multimedia networks**

R.Sandhya Reddy

Proceedings of National Conference on Advances in Communication Technologies 2009 (NCACT'09),
Volume , Year 2009, Pages

31. **Performance Analysis of Spreading codes for DS-CDMA Systems**

R.Sandhya Reddy

Proceedings of National Conference on Signal Processing and Communication 2009 (SPCOM'09), ,
Volume , Year 2009, Pages 189-194

32. **Implementation of WISPER protocol for Wireless multimedia networks**

R.Sandhya Reddy

Proceedings of National Conference on Computing & Communications 2008 (NCCC'08), Volume , Year
2008, Pages