



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTUKakinada)

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FACULTY PROFILE

Name of the Faculty	Dr. P. Pavithra Roy	
Designation	Professor	
Date of Joining	01-02-2019	
Nature of Association	Regular	
Email & Phone No	pavithra.rvk@gmail.com , drpavithraroy@diet.ac.in & 8106323944	
Department	Electronics and Communication Engineering	
Educational Background	1. Ph.D. from Sri Venkateswara University, Tirupathi 2. M.Tech (DECS) from JNTU, Anantapur 3. B.Tech(ECE) from JNTU, Hyderabad	
Areas of Specialization	Wireless Communication	
Research Areas	Cognitive Radio, Spectrum Sensing Artificial Intelligence	
Total Experience	14.5 Years	
Teaching/Research Experience	10 Years/ 4.5	

Sl. No	Institute	Designation	Period
1	DhaneKula Institute of Engineering & Technology	Prof	Feb 2019 - till date
2	Vemana Institute of Engineering and Technology	Asst. Prof	Oct 2010 -Dec 2017
3	Aeronautical Development Agency (ADA), Bangalore	Senior Research Fellow- B	Aug 2007- Aug 2010
4	GIT-INC, Bangalore	Design Engineer	Apr 2006- Jul 2007
5	KLCE	Asst. Prof	Nov 2005-Mar 2006
6	Gudlalleru Engineering College	Asst. Prof	Jul 2005-Oct 2005

List of Publications (International Journals):

1. **Pavithra Roy P.**, "An Enhanced Probabilistic Based Hybrid Neural Network for Spectrum Sensing In Cognitive Radio Networks" International Journal of Advanced Science and Technology Vol. 29, No. 4, (2020), pp. 922-930
2. **Pavithra Roy P.**, "Spectrum Sensing in Cognitive Radio Networks using Particle Swarm Optimization Algorithm" International Journal of Advanced Science and Technology Vol. 29, No. 4, (2020), pp. 931-939
3. **Pavithra Roy P.**, "Cognitive Radio Network for Robust Spectrum sensing Using Neural Networks" International Journal of Advanced Science and Technology Vol. 29, No. 4, (2020), pp. 959-968
4. **Pavithra Roy P.**, "Gravitational Search Algorithm Based Probabilistic Neural Network for Spectrum Sensing in Cognitive Radio Networks" International Journal of Advanced Science and Technology Vol. 29, No. 4, (2020), pp. 969-980
5. Dr **P.Pavithra Roy**, M.Jyothsna Sai Lakshmi, P.Bhavani, V.Gangadhar, S. Supriya, "Automatic Billing Trolley" International Research Journal of Engineering and Technology (IRJET) Vol.07, No.07, July 2020. e-ISSN: 2395-0056
6. Dr **P.Pavithra Roy**, Phani Veeranki , Sri Lakshmi Pittu, Hanisha Uppalapati, Sri Krishna Teja Sanikommu, "Multi Purpose Smart Agriculture System" International Research Journal of Engineering and Technology (IRJET) Vol.07, No.07, July 2020, e-ISSN: 2395-0056
7. **Pavithra Roy P.**, and Muralidhar M., "Hybrid Neural Network Training Algorithm for Spectrum Sensing In Cognitive Radio Networks", International Journal of Mobile Network Design and Innovation, Inder Science Publishers, Vol. 6, No 3, pp. 174-184,2015.
8. **Pavithra Roy P.**, and Muralidhar M., " Spectrum Sensing using Probabilistic Neural Networks in Cognitive Radio Network", International Journal of Computer Science & Communication Networks, Vol 5(2),pp.120-127, 2015.
9. **Pavithra Roy P** and Muralidhar M., "Channel State Prediction in a Cognitive Radio Network using Neural Network Levenberg-Marquardt Algorithm" International Journal of Wireless Communications and Network Technologies, pp. 24-29, 4(2), 2015.
10. **Pavithra Roy P.**, and Muralidhar M., "Throughput Maximization in Cognitive Radio Networks using Levenberg-Marquardt Algorithm", International Journal of Advanced Research in Computer and Communication Engg, pp. 315-319, Vol. 4, Issue 2, 2015.
11. **Pavithra Roy P.**, and M. Muralidhar., "Hidden Markov Model based Channel state prediction in cognitive radio networks", International Journal of Engineering Research & Technology, pp.391-394, Vol. 4, Issue 02, February-2015.

National/International Conferences ((National and International):

- 1 **Pavithra Roy P.,** "Optimal Relay Node selection Using multi-objective based Crow Search Optimization Algorithm for multi user cooperative communication Network", International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020), 28-29 December,2020, Organized by Jawaharlal Nehru Technological University, Kakinada, AP
- 2 **Pavithra Roy P.,** "An Enhanced Probabilistic Based Hybrid Neural Network for Spectrum Sensing in Cognitive Radio Networks", Green Power Technology in Power Grid: Issues, Challenges and Control (ICGPTPG-2019), 19th- 21st Dec 2019, Organized by Sri Venkateswara University College of Engineering, Tirupati, AP
- 3 **Pavithra Roy P.,** and Muralidhar M., "Robust Spectrum sensing in cognitive radio neural networks" 5th First International Conference on Computational and Intelligent Techniques for Automation of Engineering Systems (CITAES-2018), Nov 30- Dec01,2018 Organized by Gudlavalleru Engineering College, Gudlavalleru, AP.

Achievements / Awards etc.

1. Received Best paper Award for the paper "An Enhanced Probabilistic Based Hybrid Neural Network for Spectrum Sensing in Cognitive Radio Networks", Green Power Technology in Power Grid: Issues, Challenges and Control (ICGPTPG-2019), 19th- 21st Dec 2019, Organized by Sri Venkateswara University College of Engineering, Tirupati, AP.



Dr. P. Pavithra Roy