

CURRICULUM VITAE

Dr. MADHURI G R

Assistant Professor

Dept of Electronics
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EDUCATION :

- M.Sc. Applied Electronics, Gulbarga University, Kalaburgi
- Ph. D Electronics, Gulbarga University, Kalaburgi.

PROJECTS SUMMARY:

Area of Specialization	: Microwave Electronics. : Digital Image Processing.
Title of Ph.D. Thesis	: Some Studies on Dielectric Resonator Antennas
Research Guide	: Prof P. M Hadalgi

EMPLOYMENT

- 2011- 2017, Lecturer, Department of Electronics, SGN PU College
- 2018- Present, Assistant Professor, Department of Electronics, Kuvempu University.

Teaching Experience:

- **Six** years of Teaching Experience in Post-Graduate level
- Academic Programs taught: M.Sc Electronics
- Courses taught: Microwave Devices and Antennas, Signals and systems, Information theory and coding, Pattern recognition.

Research Supervision:

- Research supervision to FOUR Ph.D. candidates who have registered under my guidance.
- Project guidance to M.Sc. graduates.

Research Project:

- Completed one minor research project “ Image Analysis and Segmentation Techniques”, Startup Research Grant, Kuvempu University.

RESEARCH PUBLICATIONS

INTERNATIONAL JOURNAL PAPERS:

1. Swarrop H N, Basavaraj N Jagadale, Salma N, **Madhuri G R**, “An Improved Image Denoising and Edge-Preserving Technique by Bayesian Shrink Threshold using Curvelet Transform”, Goya Journal, Volume 16, issue 10, 2023, pp.352-363. DOI:12.163022.Gj.2023.v16.10.032.
2. **R. G. Madhuri**, S L Mallikarjun “Slot-fed Dielectric Resonator Antenna for Multi-Frequency Operation”, *International Journal of Electronics and Engineering*, Vol. 10, Issue 2, pp. 104-107, 2018.
3. **R G Madhuri**, and P M Hadalgi, “Rectangular ring-slot dielectric resonator antenna with metallic plate”, *Progress In Electromagnetics Research M*, Vol. 20, 171-177, 2011.
4. **R. G. Madhuri**, P. M. Hadalgi, and P. V. Hunagund, “Design of High-Permittivity Rectangular Dielectric Resonator Antenna” *Microwave and Optical Technology Letters*, Vol. 53, No. 5, May 2011.
5. **R. G. Madhuri**, P. M. Hadalgi, S. L.Mallikarjun, and P. V. Hunagund, “Wideband-Stacked Rectangular Dielectric Resonator Antenna” *Microwave and Optical Technology Letters*, Vol. 52, No. 11, NTweov 2010.
6. **R G Madhuri**, P M Hadalgi and S L Mallikarjun, “U-Slot Rectangular Dielectric Resonator Antenna for Wideband Applications” *Internatinal Journal of Electronics Engineering*, Vol.2 No. 2, pp. 269-271, 2010.
7. **R. G. Madhuri**, P. M. Hadalgi, S. L.Mallikarjun, and S. A. Malipatil, “Bandwidth Enhancement of Slot-fed Dielectric Resonator Antenna”, *Microwave and Optical Technology Letters*, Texas, Vol. 52, No. 2, pp.316-318, Feb 2010.
8. **R. G. Madhuri**, P. M. Hadalgi, S. L.Mallikarjun, “Rectangular Dielectric Resonator Antenna for X-Band Applications”, *Internatinal Journal of Electronics Engineering*, Vol.1 No. 2, pp. 269-271, 2009.

NATIONAL JOURNAL PAPERS:

9. **R G Madhuri**, P M Hadalgi and S L Mallikarjun, “High Gain Multi-frequency Slot-fed Dielectric Resonator Antenna”, *IUP Journal of Science & Technology*, Hyderabad, Vol. 6, No. 4, pp.44-50, 2010.
10. **R. G. Madhuri**, P. M. Hadalgi, S. L.Mallikarjun, “Dielectric Loaded Rectangular Microstrip Patch Antenna for WLAN Applications” *IUP University Journal of Electrical & Electronics Engineering*, Vol. III, No. 2, pp. 24-30, April 2010.
11. **R G Madhuri**, S L Mallikarjun and P M Hadalgi, “A Simple Slot-fed Cylindrical Dielectric Resonator Antenna” *IUP Journal of Telecommunications*, Vol. 3, No. 1, 2011.
12. **R. G. Madhuri**, P. M. Hadalgi, S. L.Mallikarjun, “Slot-fed wideband dielectric resonator antenna for wireless applications” *Indian Journal of Radio & Space Physics*, Vol. 39, pp. 372-375, Dec 2010.
13. **R. G. Madhuri**, S L Mallikarjun “Slot-fed Dielectric Resonator Antenna for Multi-Frequency Operation”, *International Journal of Electronics and Engineering*, Vol. 10, Issue 2, pp. 104-107.

INTERNATIONAL CONFERENCES/SYMPOSIA/SEMINARS:

1. **Madhuri G R**, Ramesh M L, “Design and Development of Stacked Multi-Permittivity Dielectric Resonator Antenna (DRA) for Ultra-Wide Band (UWB) Applications”, 2023 IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS), DOI: [10.1109/ICICACS57338.2023.10099748](https://doi.org/10.1109/ICICACS57338.2023.10099748)

2. **Madhuri G R**, Chandrakant T S, B N Jagadale, “Review on Brain Tumor Segmentation and Classification using Artificial Intelligence”, DOI: Conference: 2023 IEEE International Conference on Contemporary Computing and Communications (InC4), DOI:[10.1109/InC457730.2023.10262833](https://doi.org/10.1109/InC457730.2023.10262833)
3. **Madhuri G R**, Chandrakanth T S, B N Jagadale, “A Survey on Artificial Intelligence-based Lung Tumor Segmentation and Classification”, Conference: 2022 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), DOI: [10.1109/DISCOVER55800.2022.9974713](https://doi.org/10.1109/DISCOVER55800.2022.9974713)
4. **Madhuri G R**, Ramesh M L, “Design and Development of Stacked Patch Antenna with Band-Rejection Characteristics for Ultra-Wide Band Applications”, Conference: 2022 IEEE North Karnataka Subsection Flagship International Conference (NKCon) DOI: [10.1109/NKCon56289.2022.10126686](https://doi.org/10.1109/NKCon56289.2022.10126686)
5. **R.G. Madhuri**, S.L. Mallikarjun, Dinesh B. Ganure, and P.M. Hadalgi, “Bandwidth enhancement using circular shaped dielectric resonator antenna”, Proceedings of International Conference on Innovative Trends in Electronics and Communication (ICINEC-2019) 52 Department of Studies and Research in Electronics, Kuvempu University, Shimoga.
6. **R.G. Madhuri**, S.L. Mallikarjun, Dinesh B. Ganure, and P.M. Hadalgi, “Design of Dielectric Resonator Antenna using CaCO₃ for dual band Application”, Proceedings of International Conference on Innovative Trends in Electronics and Communication (ICINEC-2019) 52 Department of Studies and Research in Electronics, Kuvempu University, Shimoga.
7. **Madhuri G R**, S L Mallikarjun, P M Hadalgi, P V Hunagund, “Comparative study of H-slot Dielectric Resonator Antenna with two different dielectric materials”, Proceedings of International Conference on Innovative Trends in Electronics and Communication (ICINEC-2019) 52 Department of Studies and Research in Electronics, Kuvempu University, Shimoga.
8. **Madhuri G R**, S L Mallikarjun, P M Hadalgi, P V Hunagund, “Dielectric Resonator Antennas: Review and recent developments”, Proceedings of International Conference on Innovative Trends in Electronics and Communication (ICINEC-2019) 52 Department of Studies and Research in Electronics, Kuvempu University, Shimoga.
9. **R. G. Madhuri**, P. M. Hadalgi and P. V. Hunagund, “Design and Measurement of a Hybrid Dielectric Resonator Antenna” *IEEE Proc. Int Conf. Computer, Communication & Electrical Technology*, NCE, Tirunelveli, pp. 216-218, March 2011.
10. **R. G. Madhuri**, P. M. Hadalgi S. L. Mallikarjun and P. V. Hunagund, “Slot –fed dielectric resonator antenna for multiband operation”, Workshop/Seminar on VLSI & VDHL, Veerendra patil degree college, Bangalore, pp. 37- 43, 29th Jan 2010.
11. **R. G. Madhuri**, P. M. Hadalgi, P. V. Hunagund and P. A. Ambresh, “Microstrip-fed Slot-coupled Rectangular Dielectric Resonator Antenna for Dual-band Operation” *Proc. Int Conf. Communication, Computation Control & Nanotechnology*, REC, Bhalki, pp.178-181, Oct 2010.

BOOK CHAPTERS in Edited Books

1. Machine Learning-Based Pattern Recognition Models for Image Recognition and Classification, Lecture notes in Networks and systems (LNNS, Volume 779), February 2024. DOI: [10.1007/978-981-99-6346-1_8](https://doi.org/10.1007/978-981-99-6346-1_8).

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