CURRICULUM VITAE

Dr. MADHURI G R
Assistant Professor
Dept of Electronics
Kuvempu University, Jnanasahayadri
Shankaraghatta-577451
Shimoga, Karnataka.

Cell: 9972084448
Email : madhurigr12@gmail.com
madhuvshwa@gmail.com

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:

- **Seven** 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

JOURNAL PAPERS:

1. **Madhuri G R,** Salma N, Basavaraj Jagadale Akshata G M"Robust brain tumor detection and classification via multi-technique image analysis", Physica Scripta, June 2024 **DOI:10.1088/1402-4896/ad591b.**
2. **Madhuri G R,** Salma N, Basavaraj Jagadale, "Advancing remote sensing: a unified deep learning approach with pretrained and custom architectures for high-precision classification", Physica Scripta, Oct 2024. **DOI:10.1088/1402-4896/ad8491.**
3. 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.**
4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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.
11. **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.
12. **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**.**
13. **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.***
14. **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.
15. **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. Chandrakant T S, Basavaraj N Jagadale, **Madhuri G R** "AI in ophthalmic Imaging: Enhancing Retina Analysis for Early Disease Detection", IEEE International Conference on Computer Vision and Machine Intelligence(CVMI), 19-20 Oct 2024, DOI:10.1109/CVMI61877.2024.10782114.

2. **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

3. Chandrakant T S, B N Jagadale, **Madhuri G R,** "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

4. Chandrakanth T S, B N Jagadale, **Madhuri G R,** "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

5. **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

6. **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.

7. **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.

8. **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.

9. **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.

10. **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.

11. **R. G. Madhuri**, P. M. Hadalgi S. L. Mallikarjunand 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.

12. **R. G. Madhuri**, P. M. Hadalgi, P. V. Hunagund and P. A. Ambresh, "Microstrip-fed Slot-coupled Rectangula 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.

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