

PUBLICATIONS

International Journal:

1. Jorwal, S., Dubey, A., Gupta, R., & Agrawal, S.(2025). An ultrawideband graphene microwave absorber for advanced stealth technology,” *Physica Scripta*, vol.100, no.4, pp.045550. (SCI. IF-2.6)
2. Yajush Rai, Anand Sharma, Smriti Agarwal, Rajeev Gupta, “Circularly Polarized Dielectric Resonator based MIMO Antenna for Sub - 6 GHz 5G Cognitive Radio Applications”, *Physica Scripta* 99 (2024) 065547, IOP publishing (IF = 2.6, SCI-E)
3. Jorwal, S., Dubey, A., Gupta, R., & Agrawal, S. (2024). A tunable, dual band graphene terahertz absorber with equivalent circuit modeling. *Optical and Quantum Electronics*, Springer, 56(8), 1377. (SCI, IF– 3.3)
4. Jorwal, S., Dubey, A., Gupta, R., & Agarwal, S. (2024). Triple-Band Ultrathin Minkowski Fractal-Inspired Polarization-Insensitive Microwave Absorber for Stealth Application. *Journal of Electronic Materials*, Springer, 1-9. (SCI, IF–2.2)
5. Maninder Singh , Vishal Gupta, **Rajeev Gupta**, Basant Kumar, Deepak Agrawal“*A Novel Method for Prediction of Raised Intracranial Pressure Through Automated ONSD and ETD Ratio Measurement From Ocular Ultrasound,*” *Ultrasonic Imaging*, 2023 Sep. 12;1617346231197593,doi: 10.1177/01617346231197593.
6. Mohit Kumar*, **Gupta Rajeev** and Kumar Basant, “*A Survey on the Machine Learning Techniques for Automated Diagnosis from Ultrasound Images,*” *Current Medical Imaging* 2024; 20(). 29 May 2023 doi: 10.2174/1573405620666230529112655.
7. Mohit Kumar*, **Gupta Rajeev** and Kumar Basant, “*Computer-aided Diagnosis of Various Diseases Using Ultrasonography Images,*” *Current Medical Imaging* 2024; 20(). 05 April 2023, <https://dx.doi.org/10.2174/1573405619666230306101012>.
8. Sunil Jorwal, Ashish Dubey, **Rajeev Gupta** and Smriti Agarwal “*A Review: Advancement in Metamaterial Based RF and Microwave Absorbers*” *Sensors and Actuators A: Physical*, Volume 354, 2023, 114283, ISSN 0924-4247, <https://doi.org/10.1016/j.sna.2023.114283>.
9. Maninder Singh, Vishal Gupta, Pramod Kumar Singh, **Rajeev Gupta**, Basant Kumar, Fayadh Alenezi, Adi Alhudhaif, Sara A. Alhubiti and Kemal Polat “*Automatic Detection of Hard Exudates Shadow Region within Retinal Layers of OCT Images*” *Hindawi Mathematical Problems in Engineering* Volume 2022, Article ID 7128547, 14 pages <https://doi.org/10.1155/2022/7128547>.
10. Samarjit Singh , Anil Kumar Mauryaa , **Rajeev Gupta** , Abhishek Kumar and Dharmendra Singh, “*Improved microwave absorption behavioral response of Ni/SiC and Ni/SiC/Graphene composites: A comparative insight,*” *Journal of Alloys and Compounds* ELSEVIER Volume 823, 15 May 2020, 153780
11. **Rajeev Gupta**, Vishal Gupta, Basant Kumar, Pramod Kumar Singh , Amit Kumar Singh “*A Novel Method for Automatic Retinal Detachment Detection and Estimation using Ocular Ultrasound Image*” in *Multimedia Tools and Application* Springer (2018), volume 79, 11143–11161 (pp). <https://doi.org/10.1007/s11042-018-6032-3>

12. **Rajeev Gupta**, Amit Kumar and Utkarsh Besaria, “*Four Element Triangular Wideband Dielectric Resonator Antenna excited by coaxial probe*,” IOSR Journal of Electronics and Communication Engineering Volume 6 issue 4 (May –June 2013) PP 1 –6.

International Conference:

1. Kunvar Kant Patel, Ayush Kanodia, **Rajeev Gupta**, Basant Kumar, “*Multi-modal data fusion based cardiac disease prediction using late fusion and 2D CNN architectures*”in: 11th IEEE International Conference on Signal Processing and Integrated Networks (SPIN 2024)(Accepted).
2. Yajush Rai, Moulik Razdan, Rahul Bajaj, Avani Singh Rana, **Rajeev Gupta**, Smriti Agarwal, “*Machine learning inspired classification model of different edible oil samples using high sensitivity microwave sensor*,” in: 11th IEEE International Conference on Signal Processing and Integrated Networks (SPIN 2024)(Accepted).
3. M. Singh, **R. Gupta**, B. Kumar and D. Agrawal, “*Development and Validation of Artery Vein Ratio Measurement Based on Deep Learning Architectures*,” TENCON 2023 - 2023 IEEE Region 10 Conference (TENCON), Chiang Mai, Thailand, 2023, pp. 1-6, doi: 10.1109/TENCON58879.2023.10322542.
4. K. Mohit, A. Shukla, **R. Gupta**, P. K. Singh, K. Agarwal and B. Kumar, “*Contrastive Learning Embedded Siamese Neural Network for the Assessment of Fatty Liver*,” TENCON 2023 - 2023 IEEE Region 10 Conference (TENCON), Chiang Mai, Thailand, 2023, pp. 12611265, doi: 10.1109/TENCON58879.2023.10322413.
5. S. Jorwal, A. Dubey, **R. Gupta**, and S. Agarwal, “*Hybrid Minkowski Fractal FSS Based Multiband Polarization Insensitive Radar Absorber*,” *IEEE Int. Conf. Electr. Electron. Commun. Comput. ELEXCOM 2023*, 2023, doi: 10.1109/ELEXCOM58812.2023.10370361.
6. S. Jorwal, A. Dubey, **R. Gupta** and S. Agarwal, “*Design and Optimization of Ultrawideband Graphene based Polarization Converter*,” 2023 First International Conference on Microwave, Antenna and Communication (MAC), Prayagraj, India, 2023, pp. 1-5, doi: 10.1109/MAC58191.2023.10176338.
7. K. Mohit, **R. Gupta** and B. Kumar, “*Self-Supervised Contrastive Learning for Covid-19 Classification from Computed Tomography Images*,” *IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 24 December 2022, IIT Allahabad. India doi: 10.1109/UPCON56432.2022.9986406.
8. Yajush Rai, Rahul Gupta, Ravi Prakash, Ravi Kumar Verma, **Rajeev Gupta**, Smriti Agarwal, “*Design of a PRS-Based Wideband Circularly Polarized 2 X 2 MIMO Antenna for 5G / Millimeter Wave Communication*,” IEEE 9th International Conference on Electrical, Electronics and Computer Engineering (UPCON), 2022.
9. Kumar Mohit, Jojo Johnson, Kumari Simran, **Rajeev Gupta**, Basant Kumar, “*A survey study of diseases diagnosed through imaging methodology using ultrasonography*,” 2nd International Conference on, Communication and Signal Processing (VCAS 2019) at MNNIT Allahabad during 21-23 October 2019.
10. Shailesh kumar, Ajitabh Kumar Srivastava, Abhijeet Jha, Abhinav Adarsh, **Rajeev Gupta**, Basant Kumar, “*Implementation of Linear Structuring Element in Open CV for Blood Vessel*

Segmentation from Color Fundus Images” 10th ICCCNT 2019 at IIT Kanpur during 6-8 July 2019.

11. Aniket Pratik, Maninder Singh, Kokkula Sriraj, MeesalaA.Kumar, **Rajeev Gupta**, Deepak Agrawal and Basant Kumar, “*Computer Assisted Detection of Good View Frame from USG Video for ONSD Measurement*,” Computer - Assisted Medical Interventions: scientific problems, tools and clinical applications Surgetica, 17-18 June 2019 Rennes, France.
12. Abhijit Jha, Shailesh Kumar, Ajitabh Srivastava, **Rajeev Gupta** and Basant Kumar, “*Diabetic Retinopathy Detection and Grading From Fundus Image Using Deep Learning Library Tensorflow*” Computer- Assisted Medical Interventions: scientific problems, tools and clinical applications, Surgetica, 17-18 June 2019 Rennes, France.
13. Shailesh Kumar, Shubham Choudhary, **Rajeev Gupta** and Basant kumar, “*Performance Evaluation of Joint Filtering and Histogram Equalization Techniques for Retinal Fundus Image Enhancement*”, 5th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2018.
14. **Rajeev Gupta**, Abhishek Singh, Pramod Kumar Singh, Ayushi Chandra, Basant Kumar, “*Automated Detection of Retinal Detachment from Ocular Ultrasound using Image Thresholding*,” SPIN-2018, Amity University, Noida
15. Digvijay Singh Chauhan, Abhinav Adarsh, Basant Kumar, **Rajeev Gupta**, “*Double Secret Key Based Medical Image Watermarking for Secure Telemedicine in Cloud Environment*”, Proc. TSP-2017, pp. 660-664, July 5-7, Barcelona, Spain, 2017.
16. Sharad Kumar Yadav, Shailesh Kumar, Basant Kumar and **Rajeev Gupta**, “*Comparative Analysis of Fundus Image Enhancement in Detection of Diabetic Retinopathy*”, IEEE Humanitarian Technology Conference, Dayalbagh, Agra, Dec 21-23, 2016.
17. Krishna Kumar, **Rajeev Gupta**, Basant Kumar, Chandrahas Kumar, “*Effect of Wavelet Filters on SFQ Encoder Performance for Medical Images*,” International conference on Telecommunication & Signal Processing, TSP-2014, pp. 682-685, July 1-3, Berlin, Germany, 2014.
18. Sharanyan Srikant, Arvind Kumar and **Rajeev Gupta**, “*Implementing the Dynamic Time Warping algorithm in multithreaded environments for real time and unsupervised pattern discovery*,” IEEE International conference on Computer and Communication Technology, ICCCT-2011, Sept 15-17, 2011, MNNIT, Allahabad, India.
19. **Rajeev Gupta**, Arvind Kumar, Rajeev Tripathi “*Performance Enhancement of Qos Routing Protocol for Ad-hoc networks using Smart Antenna*” International Conference on Power control and Embedded System. ICPCES -10, 28 Nov – 01 Dec 2010 at MNNIT, Allahabad, organized by department of Electrical Engineering and sponsored by IEEE. India
20. **Rajeev Gupta**, Arun Kumar Singh “*Location Estimation based Security against Primary user Emulation attacks in Cognitive Radio networks*” International Conference on Science, Engineering and Spirituality (ICES-10) , 01-02 April, 2010 at S.E.S. College of Engineering , Naval Nagar , Dhule. (M.H.) Book Chapter:
1. Vishal Gupta, Maninder Singh, **Rajeev Gupta**, Basant Kumar, Deepak Agarwal, (2023). *Development of an Automated Algorithm to Quantify Optic Nerve Diameter Using Ultrasound Measures: Implications for Optic Neuropathies*. In: Tistarelli, M., Dubey, S.R., Singh, S.K., Jiang, X. (eds) Computer Vision and Machine Intelligence. Lecture Notes in

Networks and Systems, vol 586. Springer, Singapore. https://doi.org/10.1007/978-981-197867-8_23.

2. Awasthi, A., Mohit, K., **Gupta, R.**, Kumar, B. (2022). *Data Collection Website with Brain Tumor and Pneumonia Detection*. In: Dhawan, A., Tripathi, V.S., Arya, K.V., Naik, K. (eds) Recent Trends in Electronics and Communication. Lecture Notes in Electrical Engineering, vol 777. Springer, Singapore. doi:10.1007/978-981-16-2761-3_99.

National Conferences:

1. T.Siva Kumar, Arvind Kumar and **Rajeev Gupta**, “*Use of Transaction Level Modeling in the design of a System on a Chip*”, in proceedings of IEEE sponsored National Conference on Microelectronics and Communication, NCMEC-2009, April 8-9, held at SRM University, Kancheepuram Dist, Tamil Nadu.
2. **Rajeev Gupta**, Arvind Kumar “*A Priority based Mobility Management for Low Handoff Latency in Mobile IP Networks*” RAWMTEL-08, 18-19 Oct 2008 at BIT, Mesra, Ranchi, J.H, India.