

Brief Profile

Name : Abhinav Adarsh

Date of Birth : 14th November 1989

Educational Qualification : Ph.D
• *Ph.D.* : Wireless Communication
• *M.Tech* : Digital Communication
• *B.Tech* : Electronics and Telecommunication

Work Experience :
• *Teaching* : 6 Month
• *Research / Industry* : 6 years

E-mail ID : abhinav.adarsh@miet.ac.in

Area of Interest : Wireless Communication, Image Processing, Signal Processing

Teaching :
• *Subjects Taught at UG Level* : Electronics Engineering, Image Processing, Digital Electronics
• *Subjects Taught at PG Level* : Analog and Digital Communication, Image Processing

Research Guidance :
• *B.Tech* :
• *M.Tech* :
• *Ph.D.* :

Research Publications :
• *Journals* : 4
• *Conferences* : 4
• *Book Chapters* : 1

Patent/IPR : 0
(*Books Published etc.*)

No. of National/International Conferences attended/ Paper Presented : 3

No. of Conferences Organized :

STC/FDP/Seminars/Workshops Organized :

STC/FDP/Summer/Winter Schools/Workshops /Seminars attended :

Certification Courses (NPTEL etc.) :

Memberships of the Professional Societies :

Awards/Honors :

Funded Project :

Name of Project	Funding Agency	Duration	Total Value

Any other relevant Information :

LIST OF PUBLICATIONS

Journal:

1. **Abhinav Adarsh** and Basant Kumar *et al.*, "Design of an efficient cooperative spectrum for intra-hospital cognitive radio network," *Computers, Materials & Continua*, vol. 69, no.1, pp. 35–49, 2021. (SCI (IF=4.89))
2. **Abhinav Adarsh**, Shashwat Pathak and Basant Kumar, "Design and Analysis of a Reliable, Prioritized and Cognitive Radio-Controlled Telemedicine Network Architecture for Internet of Healthcare Things", *International Journal of Computer Networks and Applications (IJCNA)*, 8(1), PP: 54 - 66, 2021, [Scopus \(h-Index=16\)](#)
3. Chauhan, Digvijay Singh, Amit Kumar Singh, Abhinav Adarsh, Basant Kumar, and Jai Prakash Saini. "Combining Mexican hat wavelet and spread spectrum for adaptive watermarking and its statistical detection using medical images." *Multimedia Tools and Applications* 78, no. 10, PP: 12647-12661, 2019.
4. Kumar, Shailesh, **Abhinav Adarsh**, Basant Kumar, and Amit Kumar Singh. "An automated early diabetic retinopathy detection through improved blood vessel and optic disc segmentation." *Optics & Laser Technology* 121, (2020): 105815. [SCI \(IF=3.87\)](#)
5. **Abhinav Adarsh** and Basant Kumar, "Design and Analysis of Signal Watermarking based Security against Primary User Emulation Attack in Cognitive Radio Network", ([Under Review](#)) in *Journal of Information Security and Applications*, [SCI \(IF=2.3\)](#)

Books / Book Chapters:

1. **Adarsh, Abhinav**, and Basant Kumar. "Wireless medical sensor networks for smart e-healthcare." In *Intelligent Data Security Solutions for e-Health Applications*, pp. 275-292. Academic Press, 2020. ([Scopus](#))

Conferences:

1. **Adarsh Abhinav**, Ayushi Tiwari, and **Basant Kumar**. "Performance Analysis of Data Sensitive Adaptive MAC Protocol for Intra-Hospital Scenario." In *2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, pp. 1-6. IEEE, 2019.
2. Chauhan, Digvijay Singh, **Abhinav Adarsh**, Basant Kumar, Rajeev Gupta, and Jai Prakash Saini. "Double secret key based medical image watermarking for secure telemedicine in cloud environment." In *2017 40th International Conference on Telecommunications and Signal Processing (TSP)*, pp. 626-631. IEEE, 2017.
3. Arya, K. V., and **Abhinav Adarsh**. "An Efficient Face Detection and Recognition Method for Surveillance." In *2015 International Conference on Computational Intelligence and Communication Networks (CICN)*, pp. 262-267. IEEE, 2015.
4. Kumar, Shailesh, Ajitabh Kumar Srivastava, Abhijeet Jha, **Abhinav Adarsh**, Rajeev Gupta, and Basant Kumar. "Implementation of Linear Structuring Element in OpenCV for Blood Vessel Segmentation from Color Fundus Images." In *2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, pp. 1-5. IEEE, 2019.