

Faculty Profile

Name : Dr. Poonam

Designation: Assistant Professor

Qualifications: Ph.D., M.Tech, B.Tech

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Area of Interest/Specialization: Digital

Communication, Digital Image Processing,

Artificial Intelligence

Experience: 12 years



Key Publications

1. Kadian, Poonam, Nidhi Arora, and Shaifali M. Arora, *Wireless Personal Communications*, 2021, 10.1007/s11277-021-08177-w.
2. Poonam, and Shaifali M. Arora, 2018. "A DWT-SVD based robust digital watermarking for digital images". *Procedia computer science*, 132, pp.1441-1448.
3. Kadian, Poonam, Nidhi Arora, and Shaifali M. Arora, 2019. "Role of scaling factor in Digital watermarking" *International Journal of Innovative Technology and Exploring Engineering*, vol. 8 (11), pp. 1658-1669.
4. Kadian, Poonam, Nidhi Arora, and Shaifali M. Arora, 2019. "A Highly Secure and Robust Copyright Protection Method for Grayscale Images using DWT-SVD" *International Journal of Recent Technology and Engineering*, Vol. 8(3), pp. 7284-7288.

Papers presented in Conferences

1. Kadian, Poonam, Nidhi Arora, and Shaifali M. Arora, 2019. "Performance Evaluation of Robust Watermarking Using DWT-SVD and RDWT-SVD" In *2019 6th International Conference on Signal Processing and Integrated Networks (SPIN)*, pp. 987-991. IEEE.
2. Kadian, Poonam, Vasudha Arora, and Shaifali M. Arora, 2020. "Robust Watermarking Schemes for Copyright Protection of Digital Data: A Survey" In *2nd International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020)*. Springer.

Patent/Copyright

1. Published a patent "A Smart Healthcare Monitoring System using Internet of Things" on 16/07/2021 with application number 202141030807

Other Contributions

- Co-converner of Avenis'2020.
- Set up Satellite Communication Lab in ECE Department.
- Organized various FDPs in the Department
- IPR coordinator for the activities in Innovation Cell
- Prepared 03 Lab Manuals for ECE Department
- Held various departmental duties such as Proctor, Co-proctor, Lab Incharge, Seminar Incharge, Training Incharge etc.