

Dr. Anshul Pareek

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A dignified academic professor with an established following and an in-depth knowledge in the discipline of artificial intelligence, Machine learning and Electronics Engineering; has pioneered and launched independent research programs; has a good morale standing and public record; highly interested in participating in the development of new interdisciplinary programs of study utilizing the rich experience if different field; has deep commitment to teaching; excels in research and has established a linkage with the industry and academia.

ORGANISATIONAL EXPERIENCE

TOTAL EXPERIENCE: 20 years

CAREER PATH:-

Dec'09 – Till date: Assistant Professor in Electronics and Communication Department, Maharaja Surajmal Institute of Technology (MSIT), New Delhi.

Sep'08 – Dec'09: Lecturer, KIIT, Gurgaon.

Jul'04 – Jun'08 : Lecturer, Suresh Gyan Vihar University, Jaipur.

EXPERTISE:

ECE, Digital Communication, Machine Learning, Deep Learning, Artificial Intelligence

COMPUTER SKILLS:

LANGUAGE & SOFTWARE: PYTHON, C, C++, MATLAB, VHDL, Cadence, PROTEL, PSPICE Assembly Language Programming 8085,8086,8051, Open CV.

PUBLICATION:

CONFERENCE PAPERS

1. Pareek, A., & Arora, N. (2019, February). Evaluation of Feature Detector-Descriptor Using RANSAC for Visual Tracking. In *Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM)*, Amity University Rajasthan, Jaipur-India.
2. Pareek, A., & Arora, N. (2020). Re-projected SURF Features Based Mean-Shift Algorithm For Visual Tracking. *Procedia Computer Science*, 167, 1553-1560.(SCOPUS)
3. Pareek, A., Arora, V., & Arora, N. (2021). A Robust Surf-Based Online Human Tracking Algorithm Using Adaptive Object Model. In *Proceedings of International Conference on Artificial Intelligence and Applications* (pp. 543-551). Springer, Singapore. .(SCOPUS)
4. Pareek. A. "Symbol detection algorithm for MIMO channels:V-BLAST" in National Conference on "Advances in VLSI, Embedded & Communication"(2012)
5. Anshul Pareek, Poonam Dahiya, Shaifali M. Arora, SURF-Based Algorithm to deal with Pose Change Challenge in Human Tracking". 3rd International Conference on Communication and Intelligent Systems, Dec 2021
6. Anshul Pareek,Shaifali M. Arora, Poonam Dahiya, Vision-based human tracking in Real-

- Time-Systems- A Survey. International Conference on Advanced Computing and Informatics-2022, Sep,2022
7. Poonam Dahiya, Shaifali M. Arora, Anshul Pareek ; Digital Image Watermarking: Potential Issues and it's Possible Solution; International Conference on Computer and Computational Sciences (ICCCS'22); 2022
 8. Anshul Pareek, Poonam Kadian, Shaifali M Arora, Jyoti Verma, Rajeev Kumar, Vikas Khullar and Renu Popli; Enhanced Radar-Based Human Suspicious Activity Classification using Transfer Learning Methods; International Conference on Emerging Technology and Sustainable Solutions, hosted here at Chitkara University, Punjab, on the 24th and 25th of November 2023
 9. Shaifali M Arora, Anshul Pareek, Poonam Kadian, Renu Popli, Vikas Khullar, Rajeev Kumar and Isha Kansal; The Vigilant Lens: Deep Learning Empowered Real-time Traffic Accident Detection in Video Surveillance ; International Conference on Emerging Technology and Sustainable Solutions, hosted here at Chitkara University, Punjab, on the 24th and 25th of November 2023
 10. Anshul Pareek, Poonam Dahiya, Shaifali M. Arora, Nidhi Gupta; 2024 Telecom Customer Churn Prediction Model: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector; REPSI 2024 BVPCOE
 11. Shaifali M Arora, Anshul Pareek, Poonam Kadian;2024 IOT based water quality monitoring system for aquaculture; ICAIA 2024 MSIT

JOURNALS PAPERS

1. Pareek, A., & Arora, S. M. (2017). Breast cancer detection techniques using medical image processing. *Breast cancer*, 2(3).
2. Pareek, A., & Arora, N. (2019). A hybrid SURF-based tracking algorithm with online template generation. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8(12), 794-798. (SCOPUS)
3. Pareek, A., & Arora, N. (2019). Robust and accurate human tracking algorithm for handling occlusion and out of plane rotation. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8(12), 3768- 3773. (SCOPUS)
4. Shaifali M. Arora, Dr Poonam Dahiya, Dr Anshul Pareek, Credit Risk Analysis using Machine Learning, *Zeichen Journal*,6(12), 931- 935, 2020(**Google scholar**)
5. Shaifali M. Arora, Poonam Dahiya, Anshul Pareek; 2021; Content Based Movie Recommendation System with Removal of Low Rated Movies; *Zeichen Journal* ;186-192; 7(1) (**Google scholar**)
6. Dr Anshul Pareek, Dr Poonam Dahiya, Dr Shaifali M. Arora;2022; Vision Based Human Tracking: An Overview; *NeuroQuantology*; October 2022 ; Volume 20 ; Issue 13; Page 3691-3698. (SCOPUS)
7. Dr Anshul Pareek, Dr Poonam Dahiya, Dr Shaifali M. Arora;2022,; Covid-19 Radiographic Image Detector using CNN; *International Journal of Food and Nutrition Sciences*;11(6). (UGC)
8. Dr Shaifali M. Arora, , Dr Anshul Pareek, Dr Poonam Dahiya;2022; Content Based Movie Recommendation System; *International Journal of Food and Nutrition Sciences*;11(7) (UGC)
9. Dr. Poonam, Dr Shaifali M. Arora, Dr Anshul Pareek; 2022; Analysis of Privacy Preserving methods in 4G and 5G Cellular Networks; *International Journal of Food and Nutrition Sciences*;11(7) (UGC)
10. Shaifali M. Arora, Poonam Dahiya, Anshul Pareek; 2022. IOT Based Weather Monitoring: A Survey. *GIS Science Journal* 202; 557-564,9(5) (**Google scholar**)
11. Shaifali M. Arora, Poonam Dahiya, Anshul Pareek; 2022; Secured Image Transfer Using DNA Operations Based On Chaotic Theory. *GIS Science Journal*; 616-621, 9(5) (**Google scholar**)
12. Poonam Kadian , Anshul Pareek , Shaifali M.Arora;2023 Automated Capuchinbird Call Detection with CNN Based Audio Classifier ; *Eur. Chem. Bull.* 2023, 12(Special Issue 13),

806-816.

13. Deepak Sarangi, Dr. Shaifali M. Arora, Dr Poonam Dahiya, Dr Anshul Pareek; General Purpose Artificial Intelligence System with Graphical User Interface; Technovation Satyam MSIT.
14. Anshul Pareek, Poonam Dahiya, Shaifali M. Arora; 2023 SMART CCTV CAMERA; SATYAM VOL 11

PATENTS

- Filed a Patent on “Smart Healthcare Monitoring System using Internet of Things”, FileNo.202141030807.
- Filed a Patent on “A system for analysis of critical crisis management factors using deep learning”, FileNo.202311003696.
- Filed a Patent on “Early flood detection system using internet of things (IOT)”, FileNo. 202311004108 .
- Filed a Patent on “Accident Prevention System for Vehicles Using Deep Learning”, FileNo. 202411037276.

BOOKS

1. “V-BLAST/MAP with ZF and LLSE Linear Receiver” by Anshul Pareek: Publisher LAP
2. “IoT Based Health Monitoring System Paperback” – March 30, 2022 by Dr. Shaifali M. Arora (Author), Dr. Poonam Dahiya (Author), Dr. Anshul Pareek (Author)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

- IEEE
- IEEE RAS
- IIC

SEMINARS AND FDP’s:

1. 2 day FDP on Fuzzy logic and neural network: An approach to soft computing at MSIT on Nov 4-5 2011.
2. 1 Day FDP on Human values and Professional ethics by MSIT on Feb 4 2012.
3. 1 week FDP on “Speech and Image Processing” from Dec 17 to 21, 2012 organized by ISTE held at MSIT.
4. 1 day FDP on “Signal prprocessing and application” by deptt of ECE on Oct 4 2014
5. 1 day FDP on Research challenges &emerging trends in electrical engineering on Feb 25 2015
6. 1 day FDP on Virtual reality and digital design techniques by deptt of ECE on Feb 28 2015
7. 1 week FDP on “Artificial Neural Network” from April 25 to 29, 2016 organized by NITTR, Chandigarh held at MSIT.
8. 1 week FDP on “MATLAB and SCILAB” from Sept 18-Sept 22, 2017 organized by NITTR, Chandigarh held at MSIT.
9. 1 week FDP on “Power Electronics and its applications through ICT” from Nov 27 to Dec 1 29, 2017 organized by NITTR, Chandigarh held at MSIT.
10. 1 week FDP on “Modelling and simulation using MATLAB through ICT” from May 21 to 25, 2018 organized by NITTR held at MSIT.
11. 1 week FDP on “4G & 5G through ICT” from Sept 17-Sept 21, 2018 organized by NITTR, Chandigarh held at MSIT.
12. 1 week FDP on Contemporary issues and challenges in management on Feb 5-9 2019 by MSIT.
13. 2 days workshop on “Antenna designing and measurements “by Deptt of ECE MSIT on Mar 1 to 2 2019.

14. 1 week FDP on “Machine learning using Python” from March 2 to 6, 2020 organized by Brain Mentors held at MSIT.
15. 1 week FDP on “Artificial intelligence in biomedical engineering: Current trends and future” from July 5 to 9, 2021 organized by ATAL.
16. 4 week short term course “AI for all” by CourseEra in 2021
17. 1 week FDP on 'ADVANCED EMBEDDED SYSTEMS' scheduled from 29/08/2022 to 02/09/2022 to be conducted by NITTTR, Chandigarh.
18. 2 weeks FDP on “Deep learning” organized by Brain mentors from 21 Nov to 3 Dec 2022 held at MSIT
19. 8 weeks NPTEL-AICTE FDP on “Introduction on Intellectual Property to Engineers and Technologists” from Feb’23 to April ’23.
20. 12 weeks NPTEL-AICTE FDP on “Introduction Internet Of Things” from Feb’23 to April ’23.
21. 1 weeks FDP on “Internet Of Things” organized by Brain mentors from 15/01/2024 to 19/01/2024 held at MSIT
22. 1 week FDP on “Effective teaching learning using social media” scheduled from 27/05/2024 to 31/05/2024 to be conducted by NITTTR, Chandigarh.
23. 1 week FDP on “Curriculum Design for Outcome Based Education” scheduled from 3/06/2024 to 07/06/2024 to be conducted by NITTTR, Chandigarh.

ACADEMICS:

Year	Examination	Institution	Major Field	Performance
2022	PhD	G.D.Goenka University,Haryana	Human Robot Interfacing	
2012	M.TECH	Raj. Tech. University	Digital Communications	64%
2001-04	Bachelor of Engineering	Mody College ofEngineering & Technology (Laxmangarh)	Electronics and Communications Engineering	69%
1998-99	Class XII(C.B.S.E)	St. Angela Sophia School (Jaipur)	Physics, Chemistry, Maths, Computer Sc.and English	72%
1996-97	Class X(R.B.S.E)	St. Angela Sophia School (Jaipur)	General grade 10courses	73 %

WORK PROFILE:

- Innovation Ambassador, IIC MSIT.
- Content Co-ordinator IIC MSIT.
- Chapter Chair of IEEE RAS MSIT
- Core Team Member of NBA
- Qualified Internal auditor Of ISO
- Central Library committee member from ECE department.
- Expertise in Analog and Digital Electronics.
- Active Team member of College Magazine Publication committee.

PERSONAL DETAILS

Date of Birth: 15th Aug, 1981
Mailing Address: C-1208 Paras Dews Sec 109 Gurugram,
Haryana.Sex: Female
Marital Status: Married

Dr. Anshul Pareek