

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: 18.5 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.

DBMS: MS-Access, SQL.

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

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. 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)
5. 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)
6. 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)
7. 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)
8. Shaifali M. Arora, Poonam Dahiya, Anshul Pareek; 2022. IOT Based Weather Monitoring: A Survey. GIS Science Journal 202; 557-564,9(5) (**Google scholar**)
9. 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**)
10. 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**)
11. Shaifali M. Arora, Dr Poonam Dahiya, Dr Anshul Pareek, Credit Risk Analysis using Machine Learning, Zeichen Journal,6(12), 931- 935, 2020(**Google scholar**)

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.

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

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 processing 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. We have received your online application for the Short Term Course on 'ADVANCED EMBEDDED SYSTEMS' scheduled from 29/08/2022 to 02/09/2022 to be conducted by NITTR, Chandigarh.

18. 2 weeks FDP on “Deep learning” organized by Brain mentors from 21 Nov to 3 Dec 2022
held at MSIT

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.
- Have taught subjects: Satellite Communication, Wireless Communication, Digital Communication, Analog Electronics-I& II, Microprocessors and Microcontrollers, Electronic Devices, Switching Theory and Logic Design, Digital Logic and Computer Design.
- Prepared lesson plans of the subjects taught.
- Helped the pupils in their personal as well as professional growth via mentoring the students and providing them tutorial sheets
- Held the responsibility of Training Incharge for the third year students and mentored them in arranging their trainings in the industry
- Handled upgradation of Analog Electronics in the Department

- Held the responsibility of Minor and Major Project In charge of ECE Department
- Lab In charge of labs like Electronic Devices, Analog Electronics, Microprocessors and Microcontrollers, Satellite Communication, Communication Systems, and Optical Communication.
- Core Team Member of Finance committee of TechFest 2020
- Actively involved in guiding several UG final year students for their projects on: Artificial Intelligence, Machine Learning, VHDL, Microcontroller based Embedded Systems, and Image Processing
- Prepared question papers for Mid Term as well as for End Term Examinations
- Acting as an Examiner (Internal and External) in GGSIPU
- Involved in paper evaluation work at GGSIPU
- Held the responsibility of class proctor various times

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