**Dr. Kanchan S. Gorde**
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**Professional Experience:**
Terna Engineering College, Nerul
Assistant Professor
August 22, 2005 till date

## Publications

### *Journal:*

1. Kanchan S. Gorde, Dr. Ajay A. Gurjar, " A Nature Inspired Optimization for Retinal Lesion Detection", Journal of Advances in Information Technology, Volume 15, No. 10, pp: 1148-1156, October 2024.
2. Tejal Hinge., Shreyas P., Utkarsh M., Rohit S., Kanchan G., " Multipurpose Agricultural Machine for Smart Farming", Journal of University of Shanghai for Science and Technology, Vol 26, 4, pp: 127-135, April 2024.
3. Kanchan Gorde, Dr. A.A. Gurjar, " Recent Automated Hard Exudates Detection Systems in Diabetic Retinopathy", Natural Volatile and Essential Oils, Volume 8 Issue 5, pp: 7619-7630, November 2021.
4. Kanchan Gorde, Neha Mahdik, "Face Detection for Identification Management System using AI", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, ISSN: 2320-3765, Volume 9 Issue 12, December 2020.
5. Kanchan Gorde, Dr. A.A.Gurjar, " Review on Single Image dehazing", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, ISSN: 2321-2004, Volume 7, Issue 12, pp: 1-3, December 2019.
6. Kanchan Gorde, Sara Begum, "Improving In Clustering Based MANET Using Neighbor Knowledge To Reduce Overhead", Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Volume: 5 Issue: 8 pp: 872-877, August 2018.
7. Kanchan Gorde, Sara Begum, "Neighbor Coverage Rebroadcast Reduced in MANET Using Zone Based Group Mobility" International Journal of Engineering Development and Research, ISSN: 2321-9939, Volume:6 Issue:3 pp :318-325, August 2018.
8. Kanchan Gorde, "Raspberry Pi powered Magic Mirror", International journal of Advanced Research in Electrical, Electronics and Instrumentation Engg., ISSN: 2320-3765, Vol.6, issue 12, pg 8824-8827, December 2017.
9. Kanchan Gorde, Sara Begum, "Reducing Routing Overhead in Mobile Ad Hoc Networks by Neighbour Coverage-Based Probabilistic Rebroadcast" ,Int. Journal of Innovative Research in Computer and Communication Engineering, ISSN:2320-9801, Vol. 5 Issue 1, pp:1378-1381, February 2017.

10. Kanchan Gorde, Supriya Mangalpalli, "Device for Early diagnosis Autonomic Neuropathy" International Conference on Electrical, Electronics and Optimization Techniques, 978-1-4673-9939-5/16/$31.00@2016 IEEE, March 2016.
11. Kanchan Gorde, Ankita Baoney, "A Novel Codebook Technique for 3D Face Recognition" International Journal of Innovative Research computer and Communication Engineering, ISSN: 23209801 Volume 4, Issue 6, pp 10937-10943, June 2016.
12. Kanchan Gorde and Supriya Mangalpalli, "Wearable Device for Prognosis of Diabetic Autonomic Neuropathy "International Journal of Recent Trends and Innovation in Computing and Communication,ISSN: 2321-8169 , Vol. 4, Issue 5, pp- 36-39, May 2016.
13. Kanchan Gorde, Ankita Baoney,"3D face recognition by using Codebook Generation Technique" International Journal of Advanced Research in Electrical, Electronics & Instrumentation Engineering , ISSN: 2320-3765,Vol.5, Issue 3,pp-1312-1317, March 2016.
14. Kanchan Gorde, Supriya Mangalpalli, "A review: Devices used for Detecting Diabetic Autonomic Neuropathy" International Journal of Science and Research,  ISSN: 2319-7064, Volume 4, Issue 11, pp-381-384, November 2015.
15. Kanchan Gorde, Nishi Khan, "Video Steganography by using statistical key frame extraction method and LSB technique" International Journal of Global Technology Initiatives, ISSN: 2277-6591, Volume 4, Issue 1 October 2015.
16. Kanchan Gorde, Nishi Khan, "Data Security by Video Steganography and Cryptography techniques" International Journal of Emerging Trends in Electrical & Electronics, ISSN: 2320-9569, Volume 11, Issue 5, pp: 58-64, September 2015.
17. Kanchan Gorde, Nishi Khan, "Video Steganography by statistical features and LSB technique" International Journal  of Advanced Research in Computer Science and Software Engineering, ISSN: 2277-128X, Volume 5, Issue 3, pp 97-100, March 2015.
18. Kanchan Gorde, Ankita Baoney, "Shape and Texture features based 3D Face Recognition", IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) ,ISSN: 2319-4200, Volume 4, Issue 2, pp 1-5, March 2015.
19. Kanchan S.Gorde, Geeta Kavitake, "NFC Ticketing Mobile Services", IOSR-JEEE, No. 4, ISSN (Online):2278-1676, ISSN (Print):2320-3331, pg. no. 28-33, March-April-2014.
20. Kanchan S.Gorde, Trupti Lad, "Image Registration & Wavelet based Hybrid Image Fusion", IOSR-JVSP, ISSN (Online):2319-4200, ISSN (Print):2319-4197, pg. no. 01-05, March-April-2014.
21. Kanchan S.Gorde, Trupti Lad, "Wavelet Based Hybrid Image Fusion Using Pixel Rules", IJAERD, ISSN (Online):2278-9383, ISSN (Print):2250-1584, pg. no. 47-52,  Feb-2014.
22. Kanchan S.Gorde and Geeta Kavitake, "NFC Ticketing Mobile Services", IJCA-ICCT, No. 4, ISBN: 973-93-80877-85-8h, pg. 27-20, Oct-2013.
23. Kanchan S.Gorde, Geeta Kavitake, "NFC Ticketing Mobile Services", ICETEA, March-2013.
24. Kanchan S.Gorde,  Trupti Lad, "Pixel based hybrid Image Fusion", ICETEA, March-2013.
25. Kanchan S. Gorde, Dr.P.R.Deshmukh, "Design & Implementation of Ternary Combinational Circuits", IJ-ETA-ETS Vol. 3, Issue 1, ISSN: 0974-3588, pg. 238-244, Jan-2011.

## *Conferences:*

1. Kanchan Gorde and Dr. A.A. Gurjar, "EVO-Based Optimization of Deep Learning Models for Diabetic Retinopathy Diagnosis", IEEE-OPJU International Conference on Emerging Technologies for Sustainable Development, February 8-10, 2023, 978-1-6654-9294-2/23.
2. Kanchan Gorde and Dr. A.A. Gurjar, "A Comparative Analysis on Diabetic Retinopathy using Deep Learning and Nature based Optimization Algorithms", IEEE-International Conference on Intelligent Systems, Advanced Computing and Communication, February 03–04, 979-8-3503-9938-7/23, 2023.
3. Kanchan Gorde and Supriya Mangalpalli, " Device for Early diagnosis of Diabetic Neuropathy", IEEE- International Conference on Electrical Electronics and Optimization Techniques, 978-1-4673-9939-5/16, 2016.
4. Kanchan S.Gorde, Alka Khade and Sneha Mane, "Remote Monitoring System based on Embedded Web Server", National Conference-Recent Advances and Challenges in Engineering and Management-2012(RACEM-2012), VIT Mumbai, pg. 12-16, March, 2-3 2012.
5. Kanchan S. Gorde, M.B. Limkar and K. Chandwar, "Digital Vehicle  Data Recorder", National Conference on Communication Antenna & Signal Processing (CASP-2011), BATU,Lonere  December, 23-24 2011.
6. Kanchan S.Gorde and Dr.P.R.Deshmukh, "Design & Implementation of Ternary Logic Combinational Ckts",  International Conference-ICETE, Kolhapur, February, 20-21 2010.
7. Kanchan S.Gorde and Dr.P.R.Deshmukh, "Design & Simulation of Ternary Logic Based Arithmetic Ckts", International Conference-ICSSA, Gujrat, December, 28-29 2009.
8. Kanchan S.Gorde and Dr.P.R.Deshmukh, "Simulation of Ternary Logic Gates", Advancing Trends in Engineering & Management Technologies, Nagpur, November, 20-21-2009.
9. Kanchan S.Gorde and Dr.P.R.Deshmukh, "Design & Simulation of Ternary Logic Based Full Adder", National Conference-Zenith, Mumbai, October, 30-31 2009.
10. Kanchan S.Gorde and Dr.P.R.Deshmukh, "Simulation of Integrated Circuits using tri-Logic" ,National Conference-Innovations in Electronics & Information Technology, at Vidyalankar Institute of Technology, Mumbai,October, 5-6 2009.

## Patent:

1. S.Roy, H. Lature, P. Wankhedkar,K. Virk, R. Raman, Kanchan.S.Gorde, R. Meenakshi, P.Dadheech, P.Kalita R.Amin, "System to assess and identify the casualty of the wound tissue using AI", Application No.202221069895 A, Publication Date : 30/12/2022.
2. V. Sadashiv, S. Mathew, Kanchan Gorde, N. Singh, " Water Pollution Source Locating Device", Application No. 402309-001, Publication Date: 05/04/2024.

## Copyright:

Mrs.Kanchan S. Gorde and Dr. Ajay A. Gurjar 2023. *Hard Exudates Detection in Diabetic Retinopathy using EEVG algorithm and ResNet based Siamese Unet model,* Copyright Government of India, Diary no.16291/2024-CO/L, Reg. no. L-154695/2024, Publication Date: 30/09/2024.

## Citation Analysis:

34 citations (h-index 3 and i10-index 2) in google scholar
https://scholar.google.com/citations?user=Hh9SF9MAAAAJ&hl=en

## Professional Association:

- ☐ Indian Society of Technical Education (ISTE) - Life Member LM 52220
- ☐ Reviewer in Scopus Indexed journal-Journal of Advances in Information Technology (ISSN: 1798-2340).

## Achievements & Certifications:

| | | |
|---|---|---|
| 1 | Topper and Gold Medal received for NPTEL 8 week course on Sysytem Design Through Verilog | Sept-2024 |
| 2 | Jury for TEC- Hackathon-2024 | Sept--2024 |
| 3 | Best Paper Award in IEEE-OPJU International Conference on Emerging Technologies for Sustainable Development, OP Jindal University, India | Feb-2023 |
| 4 | NPTEL Discipline Star recognition . | Dec-2019 |
| 5 | Recognised as Local Coordinator for 1 week FDP on VLSI Chip Design Hands-on using Open Source EDA by EICTA-MeitY , Govt. of India | Dec-2019 |
| 6 | Received Silver Medal in NPTEL Digital Image Processing 12 weeks course | Oct-2019 |
| 7 | Received Gold Medals in NPTEL Introduction to Research 8 weeks course | Apr-2019 |
| 8 | Certificate of Excellence for two week FDPs on ICT for education and Pedagogy for online and blended Teaching - Learning process | Jan-2019 |
| 9 | Achieved Topper 5% recognition in NPTEL online certification-OPAMP Practical Applications: Design , Simulation & Implementation | Oct- 2018 |
| 10 | Achieved Topper 5% recognition in NPTEL online certification-Digital Circuits of 12 weeks | Oct- 2018 |
| 11 | Achieved Topper 5% recognition in 12 weeks NPTEL online certification-IC, MOSFETs, OPAMP and their applications | Apr- 2018 |

## Workshops/STTP Attended:

1. NPTEL 8 week FDP on System Design through Verilog, IIT Guwhati, Jul-Sep,2024.
2. Online one week FDP on Free Simulators for ECE lab practices, March 11-15, 2024.
3. Online one week FDP on AI Evolution, TechSaksham-Microsoft, January 22-27, 2024.
4. Online 5 days FDP on Deep Learning, NITTTR Chandigarh, September 11-15, 2023

5. Online 5 days FDP on ML and DL : Recent Trends & Applications, OPJU, Raigarh, May 1-5, 2023.
6. Online one week FDP on Python Programming for AI, CCE-NIT Warangal, November 28-December 2, 2022.
7. Online one week FDP on Data Science and ML, SRM Institute of Science and Technology, Chennai, June 6-11, 2022
8. ATAL online FDP on Recent trends and advancements in ANN-DL, RCET, December 20-24, 2021.
9. ATAL online FDP on Bio inspired Algorithms and Optimization Techniques, NSUT, December 6-10, 2021.
10. Online 40 hours FDP on Deep Learning Foundation and Applications, EICT-NIT Warangal, July 5-14, 2021.
11. Online 40 hours FDP on Data Science for All, EICT-NIT Warangal, April 12-23, 2021.
12. Online one week STTP on Recent Trends in Biomedical Signal Processing, SCET, Amravati, November 23-28, 2020.
13. Online one week FDP on LATEX, ISTE-SCET,Amravati, July 20-24, 2020.
14. Online one week FDP on Implementation of Multi-Objective Optimization Algorithm using MATLAB, RIT-CTL, Islampur, June 29- July 3, 2020.
15. Online one week STTP on Emerging trends in Research Methods, RSRI, Tamil Nadu, June 8-13, 2020.
16. Online One week FDP on Research Methodology, VBKCOE, Buldana, Maharashtra, May 26-30, 2020
17. Online Hands on FDP on Data Science with Python, TEC-TG, Navi Mumbai, May 18-22, 2020
18. Online FDP on Fundamentals of AR and IoT using Thingworx, TEC, May 8-13, 2020
19. One week FDP on Internet of Things, TEC-TCS, Nerul,  January 1-5, 2020.
20. One week FDP on VLSI Chip Design Hands-on using Open source EDA, EICT, December 16-20, 2019.
21. One week STTP on Front End VLSI Design and Verification, AICTE-SPIT, Mumbai, June 24-29, 2019
22. One day workshop on Intellectual Property Rights, TEC, August 4, 2018
23. Two week FDP on ICT for Education and Pedagogy for Online and Blended Teaching-Learning process, AICTE-MHRD, April- May 2018.
24. Two days workshop on Effective Research Methodology, TEC-Mendeley, January 5-6, 2018
25. NPTEL online certification in 8 weeks course of Analog Circuits, Jul-Sep 2017
26. Two Week Workshop on CMOS, Mixed Signal and Radio Frequency VLSI Design, by NMEICT-IIT KGP, 26-12-2016 to 04-02-2017.
27. Two days workshop on Accreditation and outcome based education, TEC-Mendley, December 15-16 2016.
28. Two days workshop on VLSI Design using Mentor Graphics at TEC-TechLabs, January 14-15, 2016.
29. One week FDP on Analog CMOS VLSI Design at SPIT, December 7-12, 2015.

30. Two week ISTE Workshop on Signal and Systems by NMEICT-IIT-KGP, January 2-12, 2014.
31. Two week ISTE Workshop on Analog Electronics by NMEICT-IIT-KGP, June 4-14, 2013.
32. One week STTP on "Present & Future Trends in Wireless Technology", Jan 17-21, 2012.
33. One week STTP on "Image Processing", July 6-10, 2009.
34. Two day workshop on "Embedded Systems", July 29-30, 2009.
35. One week STTP on "Digital System Design using VLSI Techniques", March 20-24, 2007.

## FDP Conducted:

1. Nodal Coordinator at one week FDP on VLSI chip design hands on using Open Source EDA, December 16-20, 2019.
2. Coordinator for one week STTP on "Embedded System & Real Time Programming", July 11-15, 2011.
3. Coordinator for Subject Orientation Programme on "MPMC-II", Jan 28, 2010.
4. Organizing member for one week STTP on "Image Processing", July 6-10, 2009.

## Roles and Responsibilities

- Coordinator for the NBA & NAAC certification, R&D.
- Paper Setter, Syllabus Setter, Examiner in University of Mumbai
- Time Table Incharge from 2007 till date..
- Mentoring the students.
- Organized STTP and Orientation program.
- Worked as organizing committee member for National Conference and STTPs.

## Academic Qualifications:

- PhD in Electronics & Telecommunication Engg., 2025 from SGBAU, Amravati.
- M.E.in Digital Electronics from Amravati University in 2010 with 69%.
- B.E. in E&TC from Govt. College of Engg. Amravati in 2004.with 72.53%
- Diploma in Electronics Engg. from MSBTE in 2001 with 77.62%

## Personal Details

Date of Birth: **15 February 1981**.

Languages Known: **English, Hindi and Marathi**

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