

E & TC

## RESUME

### Personal Details

Name: Dinesh Madhukar Chandwadkar  
Languages known: Marathi, Hindi and English  
Residential address: 38, Maharudra Colony, Indira Nagar, Nashik: 422 009  
Contact details: Cell: 9422247389 Residence: 0253 2326274  
E-mail: dmchandwadkar@kkwagh.edu.in

### Academic Details

Course	Institution	Year of Passing	Result
Doctor of Philosophy, PhD (E&TC)	Govt. College of Engineering, Pune (University of Pune)	2014	Awarded
M. E. (Electronics)	S G G S College of Engineering & Technology, Nanded (Dr. B A Marathwada University)	1996	First Class with Distinction
B. E. (Electronics)	S S V P S's College of Engineering, Dhule (University of Pune)	1988	First Class

### Work History

Designation	Institution	From	To
Professor	K. K. Wagh Institute of Engineering Education & Research, Nashik.	1.07.2002	Till date
Assistant Professor	K. K. Wagh Institute of Engineering Education & Research, Nashik.	1.08.1997	30.06.2002
Lecturer	K. K. Wagh Institute of Engineering Education & Research, Nashik.	5.07.1990	31.07.1997

**Fellowship of Academic Bodies and Professional Societies:**

- Fellow of Institution of Engineers, India.
- Fellow, IETE. (Chairman, IETE sub center, Nashik)

#### **Membership of Scientific and Professional Societies:**

- Life Member of the Indian Society for Technical Education
- Member, IET, UK

#### **Publications**

- “Computer Animations in Science and Engineering Education”, AISECT 2004 *International Conference on ICT in Education and Development*, Bhopal – December, 2004
- “Implementation of DSP Based five axis CNC Machine control”, *International conference ICSCI-2006*, Pentagram Research center, Hyderabad
- “Implementation of DSP Based five axis CNC Machine supporting card for interfacing high & low speed peripherals”, *International conference ICSCI-2006*, Pentagram Research center, Hyderabad
- “Audio Signal Classification: A Review”, An invited paper in the *National Conference on Signal Processing Automation*, DY Patil College of Engineering, Pimpri, Pune, Sept 2007
- “Automatic System for Recognition of Handwritten Character Using Multiscale Neural Network”, *International Journal of Computer Applications (IJCA) Proceedings on International Conference in Computational Intelligence (ICCI 2012)* ICCIA (6):-, March 2012. (0975 – 8887)
- “FPGA Implementation of Three-Phase Induction Motor Speed Control Using Fuzzy Logic and Logic Based PWM Technique”, 1<sup>st</sup> International Conference on Recent Trends in Engineering & Technology, Mar-2012 Special Issue of International Journal of electronics, Communication & Soft Computing Science & Engineering, ISSN: 2277-9477
- “Role of features and classifiers on accuracy of identification of musical instruments”, *2nd IEEE National Conference on Computational Intelligence and Signal Processing (CISP), 2012*, Guwahati, India (Published in IEEE Explorer (CISP2012 Proceedings) Pages: 66 - 70, DOI: [10.1109/NCCISP.2012.6189710](https://doi.org/10.1109/NCCISP.2012.6189710))
- “Selecting Proper Features and Classifiers for Accurate Identification of Musical Instruments”, *Proceedings of International conference on Electronics and Computer Technology, (ICECT 2012)*, 6-8 April 2012. Published in *International Journal of Machine Learning and Computing (IJMLC)* vol. 3, no. 2, 2013.
- “Identification of String Instruments Using Spectral Features”, *36<sup>th</sup> Annual Technical Journal of The Institution of Engineers (I) Pune Local Centre*, Oct 2012

- “Comparing accuracy of Musical Instrument identification for different features with k-NN and SVM Classifiers”, *International Journal of Electronics, Communication & Soft Computing Science and Engineering* (ISSN: 2277-9477), Volume 1, Issue 1, February 2013
- “Numerical Protection Relay (IED) as power factor controller”, *International Journal of Global Technology Initiatives (IJGTI), March 2013 Volume 2 Issue 1*, ISSN (online) : 2320-1207
- “Feature Analysis and Classification of Musical Instrument Sounds”, *International Journal of Global Technology Initiatives Volume 2, Issue 1*, March 2013
- “A Study on Feature Analysis and Classification for automatic identification of Musical Instruments”, *IETE National Journal of Innovation & Research, Vol.1, Issue 1* (ISSN 2320-8961), June 2013
- “Musical Instrument Identification using k-NN and SVM Classifiers for Different Features”, *IETE National Journal of Innovation & Research, Vol.1, Issue 1* (ISSN 2320-8961), June 2013
- “Communication Module for Numerical Protection Relay – A Smart Grid Element”, *International Journal of Research in Electronics and Computer Engineering: Vol 3, Issue 1, March 2015, ISSN: 2348-2281 (ONLINE)*
- “Development of DSP Based Numerical Protection Device for Switchgear”, *International Journal of Research in Electronics and Computer Engineering: Vol 3, Issue 1, March 2015, ISSN: 2348-2281 (ONLINE)*
- “Emergence of IEC 61850 in Substation Automation & its Applications in Making of Smart Grid”, *The Research Journal (TRJ): A Unit of I2OR, June 2015, ISSN: 2454-4930 (ONLINE)*
- “Counterfeit Currency Recognition Using SVM With Note to Coin Exchanger”, *International Journal of Modern Trends in Engineering and Research, Vol 2, Issue 7, July 2015*
- “Survey on efficient plug-in hybrid vehicle charging”, *IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308: Volume 5, Issue 1, Jan 2016*
- “Optimized energy efficient lighting system for Green buildings”, *IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308: Volume 5, Issue 1, Jan 2016*
- “Overview on Latest Gesture Controlled Systems for Robotic Arm”, *International Journal of Computer Applications (0975 – 8887) Volume 135 – No.1, February 2016*
- “A review paper on different implementation Techniques associated with anti-lock braking system”, *IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308: Volume 5, Issue 2, Feb 2016*
- “Monitoring Deforestation in Forests using WSN”, *IEEE International Conference on Telecommunication, Power Analysis and Computing Techniques (ICTPACT 2017), Hosur, TN, April 2017*
- “Autonomous Wearable System for Health Monitoring”, *International Research Journal of Engineering and Technology (IRJET), Vol 4, Issue 4, April 2017, e-ISSN: 2395 -0056*

- “Embedded Touchpad for Desktop Users, *International Journal of Computer Applications (IJCA)*, April 2017, ISBN : 973-93-80895-99-8, Volume: 163, No: 6, DOI: 10.5120/ijca2017913539, Digital Library URI : <http://www.ijcaonline.org/archives/volume163/number6/27396-2017913539>
- “Identification of Ragas in Hindustani Classical Music Using Aaroha and Avaroha, *International Journals of Advanced Research in Computer Science and Software Engineering*, ISSN: 2277-128X (Volume-7, Issue-6), June 2017
- “Modeling and Performance Analysis of Microgrid Using Fuzzy Logic Controller, *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)*, July 2017, Vol. 6, Issue 7
- Machine to Machine Communication for Automatic Load Transfer, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-10, August 2019
- Efficient Energy Saving by Controlling of the Loads, *International Journal for Research in Engineering Application & Management (IJREAM)*, ISSN: 2454-9150 Vol-04, Issue-04, July 2018
- Vehicle Identification Using Digital Camera, *International Journal of Computer Sciences and Engineering*, Vol.-6, Issue-7, July 2018
- Graphical User Interface for Electric Vehicle Charging Station, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-10, August 2019
- Industrial Parameters Monitoring System Based on Web Server, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-9, July 2019
- Design of 2kW DC Charger for Two Wheelers, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-10, August 2019
- Adaptive headlight system, *International Journal of Vehicle Safety (IJVS)*, Vol 12, No 2, 2021
- Pulsar Detection System using Radio Telescope, *ADBU–Journal of Engineering Technology (AJET)*, ISSN: 2348-7305, Volume 11, Issue 2, June 2022

#### **Funded Projects:**

- Dr. M P Satone, Dr. D M Chandwadkar, Dr. S S Morade, Creation of Indian Still and Video Databases for Testing Face Recognition and Lip Reading Algorithms, Funded by BDUD, SPPU, Pune, Amount Rs. 1,90,000/-, 2013-2015
- Dr. S A Patil, Dr. D M Chandwadkar, Technology pilot for DC charging for EV Bus, Funded by DST-DHI (TPM), Amount Rs 150.80 Lakh.

**Patents filed:**

Title: "Energy Management for hybrid generation systems and automation", Published in The Patent Office Journal No. 16/2018 dated 20/04/2018

Title: "Real Time Detection of Milk adulterants using sensor array", Published in The Patent Office Journal No. 12/2022 dated 25/03/2022

Title: "Design and Development of E-Jacket for women safety: Rakshika", Published in The Patent Office Journal No. 33/2022 dated 19/08/2022

**Other Important Achievements / Contributions:**

- Working as Head of Department, E&TC, KKWIEER, Nashik
- Dean, Student Affairs at KKWIEER, Nashik
- Member, Board of studies, Electronics and Telecommunication Engineering, Sawitribai Phule Pune University (SPPU), Pune
- Worked as Member, BoS Coordination Committee, SPPU (7.01.2016-31.03.2017)
- Member of Center of Excellence for TATA Institute of Social Studies, School of Vocational Education (SVE) for Telecommunication vertical
- Coordinator, KKWIEER Nodal Center, TI Center of Excellence, SPPU, Pune
- Initiated IEEE Blended Learning activity in the department
- Initiated Spoken Tutorials nodal center, NPTEL nodal center, Virtual lab nodal center at KKWIEER
- Member of KPIT- PACE program for Automotive Electronics
- Participation in syllabus setting of various courses at SPPU, Pune
- Coordinator and Resource person at various Faculty Orientation Workshops organized by BoS Electronics, SPPU, Pune
- Corporate Trainer for Suzlon, Pune and IRIEEN, Nashik
- Filed three patents
- Project guided received "Innovative Project Award"
- Awarded "Best Industry Aligned Research Award" by CSI, Mumbai
- Active involvement in various consultancy assignments at E&TC dept, KKWIEER, Nashik
- Active participation in various funded research projects
- Played major role in the accreditation of two programs of Department of Electronics and Telecommunication Engineering, KKWIEER by National board of Accreditation (NBA), New Delhi recently