



Dr. Manoj Ramesh Tarambale

B.E. (Electrical), M.E. (Control System) & Ph.D. (Electrical)

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ACADEMIC / INDUSTRIAL EXPERIENCE

1. Academic Experience: 29 years
2. Industrial Experience: 01 years

WORK EXPERIENCE:

1. PVG COET & GKPIOM Pune 52 – Associate Professor in Electrical Engineering & I/C Principal from 1st April 2021 till date.
2. MMCOE, Pune -52 Electrical Department: 25 Aug 2008 to till date – worked as Assistant Professor 5th Pay (university approved) and as Associate Professor (from 1st April 2015).
3. PVG’s COET, Pune - 09, Electrical Department: from 1993 to Aug 2008 – worked as Adhoc Lecturer, Lecturer (university approved), Selection Grade Lecture (university approved) & Assistant Professor 5th Pay (2007 university approved). Resigned and relieve on 23 Aug 2008 for better opportunity.
4. M/S Suhas Engineering Work Pvt. Ltd., Pirangut, Pune: As an Engineer from July 1992 to June 1993 (1 Year)

RESEARCH TOPIC

Research work in the field of Bio-Medical Image Processing applied for detection of lung cancer in its early stage from chest X-ray image.

AREAS OF INTEREST

Electrical, Control System, Analog and Digital Electronics, Instrumentation, Bio-Medical Image Processing, Robotics, Electric & Hybrid Vehicles, Illumination Engineering etc.

PUBLICATIONS

Till today published 01 paper in National Conference, 07 papers in International Conferences, 09 papers in International Journals.

- **Paper 1:** “Computer Based Performance Evaluation of Segmentation Methods for Chest X-Ray Image” Published in: International Journal of Bioscience, Biochemistry and Bioinformatics, (DOI: 10.7763/IJBBB.2013.V3.273), Vol. 3, No. 6, pp: 545 – 551, November 2013.
- **Paper 2:** “A Computer Based Feature Extraction of Lung Nodule in Chest X-Ray Image” Published in: International Journal of Bioscience, Biochemistry and Bioinformatics, (DOI: 10.7763/IJBBB.2013.V3.289), Vol. 3, No. 6, pp: 624 – 629, November 2013
- **Paper 3:** “Chest X-Ray Enhancement for the Proper Extraction of Suspicious Lung Nodule” Published in: International Journal of Sys, Algo & Applications, Vol 3, Issue ICRASE13, pp: 31–35, May 13, ISSN Online: 2277-2677
- **Paper 4:** “Computer Assisted System for Features Determination of Lung Nodule from Chest X-ray Image” Published in: International Journal of Engineering Technology Science and Research, Volume 4, Issue 10, pp: 1092 – 1098, October 2017, ISSN 2394 – 3386
- **Paper 5:** “Spatial Domain Enhancement Techniques for Detection of Lung Tumour from Chest X-Ray Image” Published in: International Journal of Application or Innovation in Engineering & Management, Volume 2, Issue 8, pp: 276 – 285, August 2013, ISSN 2319 – 4847
- **Paper 6:** “The Performance of Various Thresholding Algorithms For Segmentation of Biomedical Image” Published in: International Journal of

Advanced Research in Engineering & Technology, Volume 5, Issue 4, pp: 119-130, April 2014, ISSN 0976 - 6480 (Print) ISSN 0976 - 6499

- **Paper 7:** “Soft Tool Development for Characterization of Lung Nodule from Chest X-Ray Image” Published in: International Journal of Image Processing and Vision Sciences, Vol 2, Issue 1, pp: 7-12, 2012, ISSN (Print): 2278-1110
- **Paper 8:** “Quality Enhancement of Chest X-Ray Image for Accurate Extraction of Lung Tumour and its Analysis” Published in: Thomson Reuters Endnote: Global Journal of Engineering Science and Researches. Special issue of NC-RASE - 2K18, DOI: 10.5281/zenodo.1488675, ISSN 2348 – 8034, pp: 17-26.
- **Paper 9:** "A Scope for the Research and Development Activities on Electric Vehicle Technology in Pune City," 2006 IEEE Conference on Electric and Hybrid Vehicles, Pune, 2006, pp. 1-8, **DOI:** 10.1109/ICEHV.2006.352285.

PROFESSIONAL AFFILIATIONS

- 1) Member, Institute of Electrical and Electronics Engineers (IEEE) USA. Also, Member of Control System Society
- 2) Life Member, Indian Society for Technical Education (ISTE)
- 3) Life Member, International Society for Research and Development (ISRDR)
- 4) Member, Quality Circle Forum of India (QCFI)
- 5) Member, International Association of Engineers (IAENG)

CONSULTATION WORK:

- 1) Mahindra & Mahindra - Electric and Hybrid Vehicle Testing - Year 2005, acted as a project member for the project of Mahindra and Mahindra Company received through S&T Park, UoP, Pune
- 2) Earthing System Design of MSEB Switch Yard near Magar Stadium Pimpri

AWARDS

- 1) Best Paper Award for the paper based on PhD / Research work presented in the conference held at MGI – COET, Shegaon, October 2018.

- 2) **'Intersciences Young Investigator'** award of Information Technology & Computer Society, Bhubaneswar, India for the paper based on PhD / Research work published in 2015.
- 3) **Most Excellent Paper award** for paper based on PhD / Research Work presented in Malaysia 2013.
- 4) 2nd Prize in hardware category of undergraduate project competition under the banner of IEEE held by PICT college, Pune in April 1992.

ABROAD VISITS

Visited Malaysia, Bangkok, Hong Kong, Macaw, China (Shanghai, Beijing & Nanjing), Japan, Singapore etc. for Technical Papers Presentation, Program Chair, Conference Chair, Conference General Chair, deliver Keynote Address, Academic Purposes etc.

SPECIAL ACHIEVEMENT

Delivered speech in “BIT's 8th World Congress on Industrial Biotechnology” held at Nanjing, China in April 2015.

HONORS:

- 1) Panel member series on "**Higher Education Transformation Talks**", 3rd June 2022 powered by Apple India and organized by Edu Lighthouse.
- 2) A keynote address delivered online on the topic “Job Opportunities and Skillset Required for Entrepreneurships During COVID-19 Pandemic Situation” on 24 November 2020 in 8th International Conference Organized by UNIVERSITAS NEGERI GORONTALO Indonesia on the topic Creative Entrepreneurship and Innovation Management in Response to Pandemic”
- 3) A keynote address delivered online on the topic “Detection of Medical Disease (Lung Cancer) Using Image Processing Tool - An Engineering Approach ” on 18 June 2020 in International Conference organized by the Ministry of Public Education of Uzbekistan

- 4) Appointed as a '**Mentor for Change**' by NITY Aayog, Government of India for development of Skill Set Lab at 'New English School, Landewadi, Manchar, Pune' from Feb 2019 for 5 years (20 Lakh cost)
- 5) Acting as a “ **President of Indian Region** ” for the Chapter of CBEEES, Hong Kong, China for their technical and scientific international activities.
- 6) Acted as '**Member, Board of Study - Faculty of Engineering (Electrical)**' of Savitribai Phule Pune University, Pune.
- 7) Published book “Basic Electrical Engineering” Technical Publication in May 2019. International registration number ASIN: B0885WD4RT
- 8) Reviewer of 06 prestigious international journals including IEEE, Elsevier, ACM, CEBBS (Hong Kong / USA) etc.
- 9) Visited Hong Kong to deliver Keynote Address in ACM sponsored International Conference **ICBRA 2018** in the month of Dec 2018, for the same conference acted as a Session Chair and Program chair.
- 10) College 16 students were sent for internship in abroad universities such as USA, UK and Russia for 45 days from 15th June 2018 to 30th July 2018.
- 11) Visited Tokyo, Japan – Meiji University, Japan in January 2018 to deliver Keynote address and as plenary speaker for the conferences **ICEBE 2K18 & ICBBB 2K18**. For ICEBE 2K18 acted as a Conference General Chair.
- 12) Visited **NTU** and **NUS** world class universities of Singapore to understand their Academics in the month of January 2018.
- 13) Deputed for a week to VIT Vellore to study working of the institute from academic point of view, lab development, facilities provided, placement etc.
- 14) January 2017 - Visited Bangkok (Thailand) for delivering keynote address in International Conferences **ICBBB 2017 & ICEBE 2017** for the same conferences is Holding Prestigious Post **Conference General Chair**.
- 15) Acted as **Program co-chair and reviewer** for ICBBB 2016 held at Indonesia.
- 16) Acted as a **Technical Program Chair** for ICBBE 2016 held at Taipei, Taiwan.

- 17) Acted as a **Conference Chair** for CEBCE 2014 held at Pune (India) and organized by SAISE, Hong Kong.
- 18) Acted as organizing committee member for IEEE International Conference on 'Electric & Hybrid Vehicle' held in Pune on 18 to 20 Dec 2006.
- 19) Acted as an Organizing Committee Member of “ 2nd World Conference on Applied Science Engineering and Technology ” to be held in **Goa , India on 29th - 30th Dec 2016.**
- 20) Worked with MPSC (Maharashtra Public Service Commission) Office, Mumbai on various fronts.
- 21) Contributed efforts to start, setup and establish Gokhale Education Society's Sapat College of Engineering, Nashik in 2009.

WORK AT COLLEGE / INSTITUTE & UNIVERSITY LEVEL

- 1) At MMCOE, Pune – 52, complete electrical department was set-up / developed under me (HOD of the department). Latest / modern equipment worth 1.3 Cr. were purchased for the labs. Electrical Department set-up is admired by the NAAC & MBA committee.
- 2) Worked as administrative in-charge of the college to set office routine work.
- 3) Active and leading contribution during college's NAAC & departments NBA documentation work and getting accreditation.
- 4) In-charge / Member of various functional committees of the college –hostel, IQAC, exam (CEO), best-practices, anti-ragging squad, admission cell, abroad internship cell etc.
- 5) Organized effectively many seminars, workshops, conferences for students and staff members
- 6) Apart from regular lab set-up, facilities for energy audit and Solar PV Inverter testing developed in the department.

- 7) Delivered expert lectures in the various engineering colleges on the topics – solar thermal, solar PV systems, wind energy, electric vehicle, motor control, energy conservation.
- 8) Worked as Member, Board of Study (Electrical) - Faculty of Engineering, SPPU, Pune
- 9) For last 20+ years active part in syllabus revision of undergraduate and post graduate subjects of Pune and other universities.
- 10) Conducted many Faculty Development Programs for college and university staff members
- 11) Recognized as a Post Graduate approved staff of SP Pune University, Pune Maharashtra (India).
- 12) Worked as Assistant Director & Director of Revaluation Department of SPPU, Pune for 5 years
- 13) Acted as Assistant CAP Director of TE & ME CAP Center at Institute for SPPU, Pune exams
- 14) Acted as paper setter, paper checker, moderator, chairman of various subjects etc. of Electrical, E&TC, Instru, Mech Branches
- 15) Implemented many good practices in the college and department
- 16) Active part in NSS (National Social Services) activities
- 17) Acted as a special investigation committee member for the various issues raised in university, LIC committee member & staff selection committee member for various colleges

OTHER ACTIVITIES

- 1) Student & Personal counselor.
- 2) Delivering regularly lectures at the **PWD Training Institute, Sanghavi & MSRT Training Institute, Bhosari** on the topics: Health, Wealth & Happiness; Personality Development; Success Stories; Time Planning; Yoga; Behavioral Manners; Family Health; Happy Life; Stress Managements etc.

- 3) Delivered lectures for the
 - i) GATE exams for Electrical, Electronics & Instrumentation branches at Institution of Engineers, Pune
 - ii) IES exam for E&TC branch at Institution of Engineers, Pune
 - iii) UPSC exam at Chankya Mandal, Pune during year 1999.

NPTEL ONLINE CERTIFICATIONS:

- 1) 'Effective Engineering Teaching in Practice', 8 Week in March 2019
- 2) 'Control systems', 12 Weeks in November 2019
- 3) 'Introduction to Research', 8 Weeks in April 2020
- 4) 'Automatic Control', 12 Weeks in Dec 2020

AICTE-ISTE APPROVED STTP / FDP ATTENDED

- 1) FDP on 'Product Design & Development – Concept to Production' organized by TATA Technologies Limited, Pune at MMCOE, Pune from 6th April to 12th April 2020 (*1 Week*)
- 2) FDP on 'Introduction of Accreditation Mechanism & NBA Approach' organized by Dr. V B Kolte College of Engineering in association with ISTE & IE, India from 11th to 15th May 2020 (*1 Week*)
- 3) STTP on 'Microcontroller Family' at WCE, Sangli in May 1997 (*2 weeks*)
- 4) STTP on 'Performance Appraisal and Development Systems' at Walchand COE Sangli from 17-22, March 1997, (*1 Week*)
- 5) STTP on 'Digital Control & Robotics' at Govt. COE Pune, from 7th June -7th May 2002. (*2 Weeks*)
- 6) STTP on 'Recent Advances in Power Semiconductor Devices & Their Applications' at Delhi COE from 1-12 July 2002 (*2 weeks*).
- 7) STTP on 'DSP & its Application to Power System Engg.' at PVG COET, Pune from 21 MAY-3 June 2007 (*2 weeks*)
- 8) STTP on 'Opportunities, Challenges and Scope for Research in Electrical Engineering' at AISSMS IOIT, Pune from 17-21 Jan 11. (*1 week*)

PERSONAL INFORMATION

- Date of Birth : November 21, 1970 (51 years)
- Place of Birth: Bhusaval (Jalgaon)
- Marital Status: Married
- Hobby: like to Listen Indian classical music, travelling etc.
- Address: Flat No: 301, Varad Vastu Building, Jaishivganga Society, Mayur Colony, Kothrud, Pune – 411038 Maharashtra (India).

I hereby certify that the information given above is correct to the best of my knowledge.



Dr. Manoj R. Tarambale

Place: Pune