



### CAREER OBJECTIVE

To secure a position in the academic domain that enables the effective utilization of my skills and expertise while fostering professional growth, promoting innovation, and demonstrating adaptability.

### EDUCATION

- 2013 - 2017 **Ph.D. in Electronics Engineering**, *Kalinga Institute of Industrial Technology (KIIT) Deemed University*, Bhubaneswar (**NIRF Ranking 24, Institute of Eminence**).  
"Design of Image Analysis Algorithm for Brain Tumor Detection from MR Images"  
Supervisor: Dr. Arun Kumar Ray, <sup>Ph.D.</sup> - IIT KGP
- 2003 - 2005 **Master of Engineering in Electronics & Telecommunication Engineering (Specialization - Digital Electronics)**, *SGB Amravati University*, Amravati, *Percentage – 66.44%*.
- 1996 - 2000 **Bachelor of Engineering in Electronics Engineering**, *RTM Nagpur University*, Nagpur, *Percentage – 72.32%*.

### TECHNICAL SKILLS

Programming Languages & Software's	MatLab/Simulink, C, L <sup>A</sup> T <sub>E</sub> X, Python
Processor Skills	Microprocessor 8085, 8086, 80386, Microcontroller 8031/8051, ARM Processor
Simulation Packages	LabView, Multisim, Commsim, Monoid, 8051 Simulator, Emulator 8086 and PSpice
Others	CorelDRAW
Operating Systems	Windows

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## EXPERIENCE

### At GSFC University, Vadodara, Gujarat, India

2024 - Present Professor, Department of Computer Science and Engineering, School of Technology, GSFC University (a CSR initiative of GSFC Limited, Govt. of Gujarat), Vadodara, Gujarat, from 22nd July 2024 to Present & Member GU Incubation Innovation Technology and Applied Research (GUIITAR) Council.

### At Symbiosis Institute of Technology Nagpur (Symbiosis International Deemed University, Pune)

2022 - 2024 Exam Incharge (University Level), and Associate Professor, Department of Computer Science and Engineering, Symbiosis Institute of Technology Nagpur, Maharashtra, from 2nd June 2022 to 30th June 2024.

### At Sanjay Ghodawat University Kolhapur

2019 - 2022 Professor & HoD, Department of Electronics Engineering, Sanjay Ghodawat University, Kolhapur, Maharashtra, from 1st February 2019 to 31st May 2022.

### At Bhilai Institute of Technology Durg - Raipur

2010 - 2019 Exam Incharge (University Level) and Associate Professor, Coordinator (EEE, ETC & CSE), Dean Research & Development, Bhilai Institute of Technology Raipur, Chhattisgarh from 11th August 2010 to 31st January 2019.

2007 - 2010 Worked as Visiting Faculty for M.Tech in Steel Technology, run by Chhattisgarh Swami Vivekananda Technical University (CSVТУ), Bhilai in coordination with Bhilai Steel Plant, Bhilai during 2007 to 2010.

2008 - 2010 Worked as Associate Professor in the Department of Electronics & Telecommunication Engineering, Bhilai Institute of Technology Durg, Chhattisgarh from 1st July 2008 to 10th August 2010.

2003 - 2008 Worked as Assistant Professor in the Department of Electronics & Telecommunication Engineering, Bhilai Institute of Technology Durg, Chhattisgarh from 7th August 2003 to 30th June 2008.

### At G.H. Rasoni Polytechnic Nagpur

2001 - 2002 Worked as Lecturer in the Department of Electronics & Telecommunication, G.H. Rasoni Polytechnic, Nagpur, Maharashtra, for the session 2001 to 2002.

**Total Teaching Experience: 22+ Years (As on March 2025)**

**Total Administrative Experience: 15+ Years (As on March 2024)**

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## Research (Ph.D.) Supervision:

- 1 **Mrs. Neeta P Kulkarni:** Design and Development of Flexible MIMO Antennas for 5G Applications (**Awarded**)
- 2 Mr. Jagan Mohite: Sentiment analysis using machine learning (On-going)

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## Research/Project Grants

- Communicated Submitted a project proposal titled “AI Empowerment in Breast Cancer Care: Advancing Diagnosis and Treatment in India’s Healthcare Landscape” with a total budget of INR 72,33,240 (INR 72 lakh) to the Centre for Advanced Research (CAR) under the Extramural Research Program, ICMR - 2024.
- 2020 Received Project Grant of Rs. 0.30 Lakhs from The Institution of Engineers (India) for the PG Project on “Automatics and Smart Toilets using IoT and Image Processing for Smart Cities”, (Project ID: PG2020009) Duration 6 months from January 2020 to June 2020.
- 2016 Received Project Grant of Rs. 0.50 Lakhs from The Institution of Engineers (India) for the UG Project on “Sign Language Detection using Kinect Sensor in Matlab”, Duration 6 months from July 2016 to December 2016.
- 2015 Received Grant of Rs. 25 Lakhs from The National Institute of Solar Energy (NISE) for the Solar Energy training Program (Surya Mitra Skill Development Program) Duration 6 months from may 2015 to December 2015.
- 2014 Received Project Grant of Rs. 5 Lakhs from Chhattisgarh Council of Science & Technology Raipur for the Project on “Real-Time Human Detection Using Single Correlation Filter and using depth information by kinect”, Duration 3 years from January 2014 to December 2016.

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## AWARDS/RECOGNITIONS

- 2023 Listed in World Scientist and University Rankings 2023 published by AD Scientific Index 2023 (Google Scholar) <https://www.adscientificindex.com/index.php?con=&tit=&q=nilesh+bhaskarrao+bahadure>  
[Link]
- 2022 Listed in World Scientist and University Rankings 2022 published by AD Scientific Index 2022 (Google Scholar) <https://www.adscientificindex.com/index.php?con=&tit=&q=nilesh+bhaskarrao+bahadure>  
[Link]
- 2021 Listed in World Scientist and University Rankings 2021 published by AD Scientific Index 2021 (Google Scholar) <https://www.adscientificindex.com/index.php?con=&tit=&q=nilesh+bhaskarrao+bahadure>  
[Link]

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## INTELLECTUAL PROPERTY RIGHTS

- 2025 Patent published to the Indian Patent Office on January 31, 2025, titled “Sales Data Analysis and Reporting for a Retail Chain Management using AIML techniques” (Registration No. 202541004675)
- 2025 Patent published to the Indian Patent Office on January 04, 2025, titled “Traffic Management - Measuring the Speed of the Moving Vehicles” (Registration No. 202441099818)
- 2024 Patent published to the Indian Patent Office on December 13, 2024, titled “VeriSign Pro: Advanced AI-Driven Signature Verification System” (Registration No. 202441096025)

GSFC University, Vadodara, Gujarat, India

- 2023 Copyright submitted to the Indian Copyright Office on 2nd October 2023: Image compression with histogram analysis using ratio comparison in Huffman coding
- 2022 Copyright published to the Indian Copyright Office on 3rd November 2022 (Registration Number: SW-15905/2022), Title: Berkeley Wavelet Transformation Based Brain Tumor Detection With Auto Report Generation

## PUBLICATIONS

### Books

#### Books Published

- 2010 Title: "Microprocessors: The 8086/8088, 80186/80286, 80386/80486 and The Pentium Family"  
Publisher: PHI Learning Pvt. Ltd. New Delhi - 110 001  
ISBN: 978 - 81 - 203 - 3942 - 2
- 2018 Title: "Image and Speech Compression by Ratio Comparison using Huffman Coding Algorithm in Matlab"  
Publisher: Lambert Academic Publishing, Germany  
ISBN: 978 - 613 - 9 - 89720 - 9
- 2019 Title: "Microcontrollers and Embedded System Design"  
Co-author: Mr. Saurabh Chandrakar, Scientist BHEL Hyderabad  
Publisher: I.K. International Publishing House Pvt. Ltd., New Delhi - 110 016  
ISBN: 9789385909702
- 2019 Title: "L<sup>A</sup>T<sub>E</sub>X: A Document Preparation System - Basic and Applications"  
Co-author: Mr. Sankalp Verma and Mr. Khaja Mohiddin  
Publisher: Notion Press (Online)  
<https://notionpress.com/read/latex-a-document-preparation-system>
- 2019 Title: "Modeling of Partial Discharge for Solid Insulation"  
Co-author: Devendra Gowda and Anandraj Desai  
Publisher: Lambert, Germany  
ISBN: 978-613-9-45281-1
- 2019 Title: "A Study on Job Satisfaction Among the Employees of SGI - School"  
Co-author: Shobha Kumbar and Snehal Shinde  
Publisher: Lambert, Germany  
ISBN: 978-613-9-45187-6
- 2019 Title: "Sign Language Detection using Kinect Sensor"  
Co-author: Shubham Juneja and Sankalp Verma  
Publisher: Lambert, Germany  
ISBN: 978-613-9-46209-4
- 2022 Title: "Programming Techniques using Python" (No. of Pages: 616)  
Co-author: Saurabh Chandrakar  
Publisher: BPB Publications Pvt Ltd, New Delhi  
ISBN: 9789389845891

<https://in.bpbonline.com/products/programming-techniques-using-python-1>

- 2022 Title: "Programming Techniques using Matlab"(No.of Pages: 616)  
Co-author: Saurabh Chandrakar  
Publisher: Scitech Publications, Chennai  
ISBN: 9789392399282  
<https://scitechpublications.com/shop/electrical-science/programming-techniques-using-matlab/>
- 2023 Title: "Python For Everyone"(No.of Pages: 367)  
Co-author: Saurabh Chandrakar  
Publisher: BPB Publications Pvt Ltd, New Delhi  
ISBN: 9789355518156  
<https://in.bpbonline.com/products/python-training-guide-1>
- 2023 Title: "Building Modern GUIs with tkinter and Python"(No.of Pages: 364)  
Co-author: Saurabh Chandrakar  
Publisher: BPB Publications Pvt Ltd, New Delhi  
ISBN: 9789355518569  
<https://in.bpbonline.com/products/building-modern-guis-with-tkinter-and-python>
- 2023 Title: "Python GUI using PyQt5"  
Co-author: Saurabh Chandrakar  
Publisher: BPB Publications Pvt Ltd, New Delhi  
ISBN: 9789355515575  
<https://drive.google.com/file/d/18IgNk5YMYHUQ3BQpgJXhZRRlnxFi3odI/view>

### Books Reviewed

- 2011 Title: "Basic Electrical Engineering"  
Publisher: Pearson Education Pvt. Ltd. New Delhi

### Books Communicated



### Book Chapters

- 2025 Jagdish Chandra Patni, Sudhir Kumar Rajput, and **Nilesh Bhaskarrao Bahadure** "Intelligent toll management using limited CNN-based Vehicle Classification", In: Malhotra, M. (eds) Innovation and Emerging Trends in Computing and Information Technologies. IETCIT 2024. Communications in Computer and Information Science, vol. 2126, pp. 271-281, Springer, Cham. doi: 10.1007/978-3-031-80842-5\_21 (Indexed in SCOPUS)

- 2025 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Shafaq, Sahil Pathan, Akash Sharma, and Parth Satokar, "Importance of Human Judgment in Artificial Intelligence: A Panoramic Overview", In: Rama Sree, S., Kumar, S. (eds) Algorithms and Computational Theory for Engineering Applications. ICACTEA 2024. Advances in Science, Technology & Innovation. Springer, Cham. [https://doi.org/10.1007/978-3-031-72747-4\\_34](https://doi.org/10.1007/978-3-031-72747-4_34) (**Indexed in SCOPUS**)
- 2025 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Anjali Singh, Anisha Jaiswal, Rashmi Kadu, Rohini Bharne, Bhumika Kosarkar and Sidheswar Routray "Human Biological Analysis Through Fitness Watch using the Deep Learning Algorithm". Wellness Management Powered by AI Technologies. John Wiley & Sons, Inc. Chapter 10, pp. 275-295 ISBN: 9781394286997 (**Indexed in SCOPUS**)
- 2024 Jagdish Chandra Patni, Tanupriya Choudhury, Pawan Kumar Mishra, **Nilesh Bahadure** and Mahendra Singh Aswal, "DataVerse: Empowering Artificial Intelligence using Metaverse .... Error! Bookmark not defined". Artificial Intelligence and Metaverse through Data Engineering (Nova) (**Indexed in SCOPUS**)
- 2020 Bhong V.S., Waghmare D.L., Jadhav A.A., **Bahadure N.B.**, Bhaladar H.K., Vibhute A.S. (2020) Design Farming Robot for Weed Detection and Herbicides Applications Using Image Processing. In: Pawar P., Ronge B., Balasubramaniam R., Vibhute A., Apte S. (eds) Techno-Societal 2018. Springer, Cham (**Indexed in SCOPUS**)
- 2020 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Sidheshwar Routray, "Detection of Brain Tumor from MR images using BWT and SOM-SVM with Authentication", In Proceedings of Springer - Lecture Notes in Electrical Engineering, 3rd International Conference on Communication, Circuits, and Systems (iC3S 2020), October 16 - 18, 2020, Bhubaneswar, India. (**Indexed in SCOPUS**)

#### International Journals

- 2025 - Communicated Anil K. Rathod, Md Bakhar, Prasenjeet D Patil, and **Nilesh Bhaskarrao Bahadure**, "Hexagonal Shaped Multilayer Micro Strip Patch Antenna for Wireless Applications", AEUE - International Journal of Electronics and Communications, Submitted on March 12, 2025, (AEUE-D-25-00739). (**Indexed in SCOPUS, Q2**)
- 2025 - Communicated **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Bhoomi Shah, Mahantesh Mattada, Nagrajan Raju, Prasenjeet Damodar Patil, and Deepak Parashar, "Predicting Life Expectancy using Deep Learning-based Algorithm" IAES International Journal of Artificial Intelligence (IJ-AI), submitted on January 09, 2025. (ID 27841) (**Indexed in SCOPUS, Q2**)
- 2025 - Communicated M. Renugadevi, K. Narasimhan, **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Deepak Parashar, Bhoomi Shah, Jagdish Chandra Patni, P D Patil, Nagrajan Raju, "Optimized Brain Tumor Detection and Extraction Using YOLO with Auto-Enhancement" MethodsX (MEX-D-25-00033), submitted on January 09, 2025. (**Indexed in SCOPUS, Q2**)

- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Deepak Parashar, Bhoomi Shah, municated Nagrajan Raju, Prasenjeet Damodar Patil, Jagdish Chandra Patni, and Mahantesh Mattada, "Mobile-Enabled Early Detection of Cardiovascular Diseases Through Deep Learning-Based Auscultation Sound Classification" *IAES Indonesian Journal of Electrical Engineering and Computer Science*, submitted on January 11, 2025. (ID 42809) (**Indexed in SCOPUS, Q3**)
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Deepak Parashar, Bhoomi Shah, municated Prasenjeet Damodar Patil, M. Renugadevi, Nagrajan Raju, "SVR Machine Learning and SARIMA-based Air Quality Index Classification and Forecasting System", *Discover Applied Sciences*, Submitted on January 11, 2025, (Review: March 2025). (**Indexed in SCOPUS, Q2**)
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Deepak Parashar, Bhoomi Shah, municated Prasenjeet Damodar Patil, M. Renugadevi, Nagrajan Raju, and Jagdish Chandra Patni, "Air Quality Index Prediction and Forecasting System using Machine Learning and ILSTM-based Technique", *Asian Journal of Atmospheric Environment*, Submitted on January 11, 2025, (AJAE-D-25-00004). (**Indexed in SCOPUS, Q3**)
- 2024 - Com- Jagdish Chandra Patni, Amit Kumar, Neha Sharma, Abhineet Anand, **Nilesh municated Bhaskarrao Bahadure**, "Machine Learning-Based Classification of Eye Diseases into Four Categories:A Robust Framework", **International Journal on Smart Sensing and Intelligent Systems**, Submitted on March 6, 2024 (**Indexed in SCOPUS, Q3**)
- 2025 **Nilesh Bhaskarrao Bahadure**, Sidheshwar Routray, Jagdish Chandra Patni, Nagrajan Raju, PD Patil, "BWT and Improved YOLOv7-based Classification Technique for Brain Tumor Severity Prediction", **International Journal of Electrical and Computer Engineering**, Vol. 15, No. 1, February 2025, pp. 958-969, DOI: 10.11591/ijece.v15i1.pp958-969 (**Indexed in SCIE & SCOPUS, Q2**)
- 2025 **Nilesh Bhaskarrao Bahadure**, Muktinath Vishwakarma, Manish P. Kurhekar, Jagdish Chandra Patni, and Prasenjeet D. Patil, "Machine Learning-based Music Classification and Recommendation System from Spotify", *International Journal of Computer Information Systems and Industrial Management Applications*, Vol. 17, 2025, pp. 143-154 (**Indexed in SCOPUS, Q3**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Deep Raut, Devanshu Bhagwatkar, Himanshu Bakshi, Priyanshu Bawse, Pari Nagpal, and Prasenjeet Patil, "Comparative Analysis of Life Expectancy Prediction using Regression Algorithms", **Intelligent Decision Technologies (IOS Press)**, Vol. 19, No. 4, pp. 1-15, 2024, doi: 10.3233/IDT-240983 (**Indexed in ESCI & SCOPUS, Q3**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Oshin Sahare, Nishant Shukla, Rohit Mandal, Jagdish Chandra Patni, Md. Khaja Mohiddin, and Pramod Pandey, "Air Quality Index Prediction for Clearer Skies Using Improved Long Short-Term Memory", **Intelligent Decision Technologies (IOS Press)**, Vol. 19, No. 4, pp. 1-10, 2024, doi: 10.3233/IDT-240982 (**Indexed in ESCI & SCOPUS, Q3**)



- 2024 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane and Aditya Nittala, "Anemia Detection and Classification from Blood Samples using Data Analysis and Deep Learning", **Automatika - Taylor and Francis**, Vol. 65, No. 3, May 2024, pp. 1163–1176. doi:10.1080/00051144.2024.2352317 (**Indexed in SCIE & SCOPUS, Q2**)
- 2023 **Nilesh Bhaskarrao Bahadure**, V. Pandimurugan, A.V. Prabu, S. Rajasoundaran, D Ratna kishore and Sidheshwar Routray, "Deep Learning Based COVID-19 Symptoms Analysis Using X-Ray Medical Images, **International Journal of Biometrics**, Vol. 15 Nos 3-4, 2023, (**Indexed in SCOPUS & ESCI**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Prasanjeeth D Patil, and N. Raju "MR Image Enhancement and Brain Tumor Detection using Soft Computing and BWT with Auto-Enhance Technique", **International Journal of Biometrics**, Vol. 15 Nos 3-4, 2023, (**Indexed in SCOPUS & ESCI**)
- 2022 S. Kalyan, A. Bhosale, P.D. Patil, **Nilesh Bhaskarrao Bahadure**, "CuS/GO composite for high performance Lithium ion storage", Elsevier - Applied Surface Science Advances, Vol. 11, 2022, pp.1-5. (**Indexed in SCIE & SCOPUS**)
- 2022 Neeta Kulkarni, Rajin M. Linus, **Nilesh Bhaskarrao Bahadure**, "A small wideband inverted L-shaped flexible antenna for sub-6 GHz 5G applications ", Elsevier AEUE - International Journal of Electronics and Communications, vol. 159, November 2022, pp.1-6. (**Indexed in SCIE & SCOPUS**)
- 2022 Neeta Kulkarni, **Nilesh Bhaskarrao Bahadure**, P.D. Patil, Jayshri Kulkarni, "Flexible Interconnected 4-Port MIMO Antenna for Sub-6 GHz 5G and X Band Applications", Elsevier AEUE - International Journal of Electronics and Communications, vol. 152, July 2022 (**Indexed in SCIE & SCOPUS**)
- 2020 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Har Pal Thethi, "Image analysis for brain tumor detection using GA-SVM with auto-report generation technique", International Journal of Biomedical Engineering and Technology, Vol. 32, No. 3, March 2020, pp.246-266, DOI: 10.1504/IJBET.2020.106034 (**Indexed in SCOPUS**)
- 2018 Shubham Juneja, Chhaya Chandra, P. D. Mahapatra, Siddhi Sathe, **Nilesh B. Bahadure**, Sankalp Verma, "Kinect Sensor based Indian Sign Language Detection with Voice Extraction", International Journal of Computer Science and Information Security, Volume 16 No. 4, April 2018, pp.135-141. (**Indexed in WoS**)
- 2018 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Har Pal Thethi, "Comparative Approach of MRI-based Brain Tumor Segmentation and Classification using Genetic Algorithm", Springer - Journal of Digital Imaging, Vol. 31, No.4, 2018, pp. 477-489, DOI: 10.1007/s10278-018-0050-6 (**Indexed in SCI, SCOPUS**)
- 2017 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Sidheshwar Routray, "SVM - LWT enabled fuzzy clustering-based image analysis for brain tumor detection", International Journal of Pure and Applied Mathematics, Vol. 117, No. 19, 2017, pp. 13-22. (**Indexed in SCOPUS**)



- 2017 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Har Pal Thethi, "A Comparative Approach of Brain Tumor Detection using SVM, DCT and Huffman Coding in Compressed Domain", *Current Medical Imaging Reviews*, Vol. 14, Issue 5, 2018, pp. 778 - 787, DOI : 10.2174/1573405613666170629154727 (**Indexed in SCIE & SCOPUS**)
- 2017 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Har Pal Thethi, "DCT Enabled Lifting Wavelet Transformation Based Image Analysis for Brain Tumor Detection and Extraction", *International Journal of Engineering and Technology*, Vol. 9, No. 2, 2017, pp. 532 - 540, doi: 10.21817/ijet/2017/v9i2/170902018 (**Indexed in SCOPUS**)
- 2017 **Nilesh Bhaskarrao Bahadure**, Arun Kumar Ray, and Har Pal Thethi, "Image Analysis for MRI Based Brain Tumor Detection and Feature Extraction Using Biologically Inspired BWT and SVM", *International Journal of Biomedical Imaging*, Vol. 2017, Article ID 9749108, 2017, pp. 1 - 12, doi:10.1155/2017/9749108 (**Indexed in WOS, SCOPUS**)
- 2016 **Nilesh B. Bahadure**, Sankalp Verma, Shubham Juneja, Chhaya Chandra, D.K. Mishra, and P.D. Mahapatra, "Sign Language Detection with Voice Extraction in Matlab using Kinect Sensor", *International Journal of Computer Science and Information Security*, ISSN 1947 - 5500, Vol. 14, No. 12 (2016) pp. 858 - 863, (**Indexed in Web of Science**)
- 2016 **Nilesh B. Bahadure**, Laukesh Jaiswal, and Nitish Kumar, "Design of Education Simulation System for Control System and Image Processing Applications using Matlab", *International Journal of Innovative Research in Science and Engineering*, ISSN 2454 - 9665, Vol. 2 Issue 5 (2016) pp. 169 - 180
- 2010 **N. B. Bahadure**, "Image Processing: Filtration, Gray Slicing, Quantization, Enhancement, Edge Detection and Blurring of images in Matlab", *International Journal of Electronics Engineering Research*, ISSN 0975 - 6450, Vol. 2, No. 2 (2010) pp. 145 - 151
- 2009 **N.B. Bahadure**, "Multirate Digital Signal Processing System for Digital Communication" *International Journal of Engineering Research and Industrial Application (IJERIA)*, ISSN 0974 - 1518, Vol. 2, No. VI (2009) pp. 121 - 129

#### International Conferences

- 2025 - Communicated **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Bhoomi Shah, Deepak Parashar, Jagdish Chandra Patni, and Prasenjeet D. Patil, "Design and Development of Novel Reusable Shoe Sole Using Piezoelectric Materials for Green Energy", *IEEE 5th International Conference on Sustainable Energy and Future Electric Transportation (SEFET 2025)* (Track 1 Power and Energy conversions for Sustainable Energy and Transportation Systems (New)), MNIT Jaipur, 09 July - 12 July, 2025, (Paper ID: 59)

- 2025 - Com- Deepak Parashar, **Nilesh Bhaskarrao Bahadure**, Hetal Jethani, Sudipta Banerjee, municated and Kanhaiya Sharma, "Advancements in Suspicious and Violent Activity Recognition for Intelligent Video Surveillance", IEEE 3rd International Conference on Disruptive Technologies (ICDT-2025), 7th - 8th March, 2025. Department of Computer Science & Engineering GL Bajaj Institute of Technology and Management, Greater Noida, India (Paper ID 612)
- 2025 - Com- Deepak Parashar, **Nilesh Bhaskarrao Bahadure**, Bhoomi Shah, Sudipta Banerjee, municated and Kanhaiya Sharma, "Exploring Advancements in Multilingual OCR Systems for Enhanced Document Analysis and Text Recognition", IEEE 3rd International Conference on Disruptive Technologies (ICDT-2025), 7th - 8th March, 2025. Department of Computer Science & Engineering GL Bajaj Institute of Technology and Management, Greater Noida, India (Paper ID 609)
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Deepak Parashar, Jagdish Chandra Patni, Bhoomi municated Shah, Hetal Jethani, and Prasenjeet D. Patil, "A Comprehensive System for Multilingual Text Recognition and Cross-Language Data Accessibility Using Machine Learning", IEEE 3rd International Conference on Disruptive Technologies (ICDT-2025), 7th - 8th March, 2025. Department of Computer Science & Engineering GL Bajaj Institute of Technology and Management, Greater Noida, India (Submitted on: Paper ID: )
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Deepak Parashar, Jagdish Chandra Patni, Bhoomi municated Shah, and Prasenjeet D. Patil, "Internet of Things Enabled Smart Agriculture Monitoring and Control System", IEEE 3rd International Conference on Disruptive Technologies (ICDT-2025), 7th - 8th March, 2025. Department of Computer Science & Engineering GL Bajaj Institute of Technology and Management, Greater Noida, India (Submitted on: Paper ID: )
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Deepak Parashar, Jagdish Chandra Patni, Mahek municated Chawda, Keshav Kansara, and Jay Prajapati, "Intelligent Framework for Detecting and Preventing Phishing Attacks", IEEE 2025 4th OPJU International Technology Conference (OTCON 4.0) on Smart Computing for Innovation and Advancement in Industry 5.0., 9-11 April, 2025 (Submitted on: 18 November 2024, Paper ID: 143, 236[])
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Deepak Parashar, Jagdish Chandra Patni, Priyanka municated Joshi, Khushi Patel, and Yug Bhavsar, "Computer vision-based real-time vehicle and traffic management and classification system", IEEE 2025 4th OPJU International Technology Conference (OTCON 4.0) on Smart Computing for Innovation and Advancement in Industry 5.0., 9-11 April, 2025 (Submitted on: 21 November 2024, Paper ID: 226, 237[]))
- 2025 - Com- **Nilesh Bhaskarrao Bahadure**, Deepak Parashar, Jagdish Chandra Patni, Priyanka municated Joshi, Khushi Patel, and Yug Bhavsar, "Advanced AI-Driven Signature Verification System using SNN", IEEE Bangalore Humanitarian Technology Conference-2025, KLS Gogte Institute of Technology College, Belgaum, on 25-26 April 2025. (Submitted on: 28 December 2024, Paper ID: 238)

- 2025 - Com- Jagdish Chandra Patni, and **Nilesh Bhaskarrao Bahadure**, "Advanced Medical  
municated Question and Answering Chatbot Powered by Llama-2 For Precise Health Answer",  
IEEE 2025 4th OPJU International Technology Conference (OTCON 4.0) on Smart  
Computing for Innovation and Advancement in Industry 5.0., 9-11 April, 2025  
(Submitted on: 3 December 2024, Paper ID: 71 / 571 [])
- 2025 - Com- Jagdish Chandra Patni, and **Nilesh Bhaskarrao Bahadure**, "Automatic Plant  
municated Watering System Using Arduino Uno And Soil Sensor", IEEE 2025 4th OPJU Inter-  
national Technology Conference (OTCON 4.0) on Smart Computing for Innovation  
and Advancement in Industry 5.0., 9-11 April, 2025 (Submitted on: 3 December  
2024, Paper ID: 97 / 570 [])
- 2025 - Com- Jagdish Chandra Patni, and **Nilesh Bhaskarrao Bahadure**, "Phishing Website  
municated Detection Using Machine Learning- Natural Language Processing Approach", IEEE  
International Conference on Emerging Smart Computing & Informatics 2025 (Hybrid  
Mode), AISSMS Institute of Information Technology, Pune, (5, 6 & 7 March 2025),  
(Submitted on: 19 December 2024, Paper ID: 572)
- 2025 - Com- Jagdish Chandra Patni, and **Nilesh Bhaskarrao Bahadure**, "Credit Card Fraud  
municated Detection Using Machine Learning- Comprehensive Study", IEEE International Con-  
ference on Emerging Smart Computing & Informatics 2025 (Hybrid Mode), AISSMS  
Institute of Information Technology, Pune, (5, 6 & 7 March 2025), (Submitted on:  
19 December 2024, Paper ID: 573)
- 2024 Ketan Sarvakar, Om Prakash Pal, Jagdish Chandra Patni, Sudhanshu Gonge,  
and **Nilesh Bhaskarrao Bahadure**, "Effective diabetes mellitus prediction using a  
hybrid ensemble machine learning model with IoT", The International Conference  
on Healthcare Innovation and Smart Systems (ICHISS 2024), December 29th &  
30th, 2024, Raipur, Chhattisgarh, India (**Presented: Indexed in SCOPUS**)
- 2024 Prasenjeet Patil, **Nilesh Bhaskarrao Bahadure**, Pradip Selokar, and Gajanan  
Sarate, "Design & analysis of Optical Ring Resonator with Circular Cavity as  
Add-drop multiplexer", 2024 IEEE Pune Section International Conference (IEEE  
PuneCon 2024), December 13 - 15, 2024, DIAT Pune, India, pp. 1-6, doi:  
10.1109/PuneCon63413.2024.10895152 (**Indexed in SCOPUS**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Sudhanshu Gonge, Jagdish Chandra Patni, Bhoomi  
Shah, Nagrajan Raju, and Prasenjeet D. Patil, "An Efficient Approach of Brain Tumor  
Detection & Extraction using BWT with Auto Enhance Technique", International  
Conference on Machine Learning and Data Engineering (ICMLDE), November 28 -  
29, 2024, Procedia Computer Science (**Presented: Indexed in SCOPUS**)
- 2024 Jagdish Chandra Patni, **Nilesh Bhaskarrao Bahadure**, "Vehicle Identification  
and Classification using Convolutional Neural Networks", IEEE 7th International  
Conference on Contemporary Computing and Informatics (IC3I2024), September 18  
- 20, 2024, Amity University, India (**Presented: Indexed in SCOPUS**)

- 2024 T. Venkata Jaswant, G. Sai Manoj, V. Vamisdhar, A. Aravind, S. Vasudeva Reddy, Jagdish Chandra Patni, **Nilesh Bhaskarrao Bahadure**, and Rohit Kumar, "Credit Card Fraud Detection Using Machine Learning- A Comprehensive Review", 2024 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON), pp. 1-4, doi: 10.1109/DELCON64804.2024.10866830, November 21 - 23, 2024, New Delhi, India **(Indexed in SCOPUS)**
- 2024 Avati Jayanthkumar, Mayakuntla Sai Sathwik, Shagam Srinivasa Reddy, Donadula Mounish Kumar, Chougule Saish Samir, Jagdish Chandra Patni, **Nilesh Bhaskarrao Bahadure**, and Rohit Kumar, "Fraud Detection in Financial Transactions using Machine Learning- A Comparative Study", 2024 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON), pp. 1-4, doi: 10.1109/DELCON64804.2024.10866169, November 21 - 23, 2024, New Delhi, India **(Indexed in SCOPUS)**
- 2024 **Nilesh Bhaskarrao Bahadure**, Jagdish Chandra Patni, Latika Pinjarkar, Poorva Agrawal, Gagandeep Kaur, and Pramod Kumar Pandey, "Harnessing Long Short Term Memory's Temporal Prowess for Clearer Skies", EAI AFRICATEK 2024 - 7th EAI International Conference on Emerging Technologies for Developing Countries, August 6-8, 2024, University of Ilorin, Ilorin, Nigeria **(Presented: Indexed in SCOPUS and WoS)**
- 2024 Neeraj Kumar Pandey, Amit Kumar Mishra, **Nilesh Bhaskarrao Bahadure**, Ajay Shukla, Manoj Diwakar, and Ankur Dumka, "DRL-iCloud: Deep Reinforcement Learning Based Real-Time Task Scheduling in Integrated Cloud", International Conference on Control, Computing, Communication and Materials 2024, August 10-11, 2024, United Group of Institutions, Prayagraj, India **(Presented: Indexed in SCOPUS)**
- 2024 Kapil Rajput, **Nilesh Bhaskarrao Bahadure**, Amit Kumar Mishra, Manoj Diwakar, and Sumita Lamba, "Real Estate Price Prediction Model Analysis Using Machine Learning", 2024 International Conference on Computing, Sciences and Communications (ICCCS), October 24 & 25, 2024, pp. 1-4, doi: 10.1109/ICCCS62048.2024.10830341, Ghaziabad, India **(Presented: Indexed in SCOPUS)**
- 2024 **Nilesh Bhaskarrao Bahadure**, Pramod Pandey, Aryan Bhutda, Rishikesh Kumbhalkar, Aditya Nittala, Jagdish Chandra Patni, and Md. Khaja Mohiddin, "Comparative Analysis of Workforce Adaptation and Job Evolution in the Age of Automation using Machine Learning", IEEE 2024 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), July 23 - 25, 2024, pp. 1-7, doi: 10.1109/ETNCC63262.2024.10767499, Windhoek, Namibia **(Indexed in SCOPUS)**
- 2024 **Nilesh Bhaskarrao Bahadure**, Neelam Singh, Jagdish Chandra Patni, Rutuja Durge, Shailaja Pipalatkhar, Ramdas Khomane, Tanupriya Choudhury, and Saumya Deshmukh, "Enhancing Decision-Making and Operational Efficiency Through Demand Prediction Using Machine Learning", IEEE 2024 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), July 23 - 25, 2024, pp. 1-5, doi: 10.1109/ETNCC63262.2024.10767541, Windhoek, Namibia **(Indexed in SCOPUS)**

- 2024 Ankur Dumka, Arnav Pandey, Amit Kumar Mishra, **Nilesh Bhaskarrao Bahadure**, Neha Tripathi, and Neeraj Kumar Pandey, "World Coin Currency Detection: A Comparative Study of Machine Learning and Deep Learning Algorithms", IEEE International Conference on Smart Devices (ICSD 2023), May 2-3, 2024, pp. 1-5, doi: 10.1109/ICSD60021.2024.10751368, Dehradun, India (**Indexed in SCOPUS**)
- 2024 Amit Kumar Mishra, **Nilesh Bhaskarrao Bahadure**, Neeraj Kumar Pandey, Vijay Karnatak, Ankur Dumka, and Jagdish Chandra Patni, "The Impact of Digital Workforce and Robotics in Ubiquitous Technology", IEEE International Conference on Smart Devices (ICSD 2023), May 2-3, 2024, pp. 1-5, doi: 10.1109/ICSD60021.2024.10751642, Dehradun, India (**Indexed in SCOPUS**)
- 2024 Amit Kumar Mishra, Neeraj Kumar Pandey, Manoj Diwakar, **Nilesh Bhaskarrao Bahadure**, Ankur Dumka, and Jagdish Chandra Patni, "A Critical Analysis of Object Tracking Using Radial Function Networks", IEEE International Conference on Smart Devices (ICSD 2023), May 2-3, 2024, pp. 1-5, doi: 10.1109/ICSD60021.2024.10751498, Dehradun, India (**Indexed in SCOPUS**)
- 2024 Alok Singh Sengar, **Nilesh Bhaskarrao Bahadure**, Amit Kumar Mishra, Vaibhav Chaudhari, Neeraj Kumar Pandey, Ankur Dumka, "The Role of Machine Learning in Equipping Students with Emerging Opportunities", IEEE International Conference on Smart Devices (ICSD 2023), May 2-3, 2024, pp. 1-5, doi: 10.1109/ICSD60021.2024.10751239, Dehradun, India (**Indexed in SCOPUS**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Jagdish Chandra Patni, "Detection of Hydrocephalus in Brain Using Visual Geometry Group-16 Architecture", 9th International Conference on Research Innovations - Trends in Computational Science, August 2-3, 2024, Bangkok (**Presented: Indexed in SCOPUS**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Sardar M. Shaikh, S. V. Khandal, "Effect of Multiple Fuel Injection Strategies on the Performance of Common Rail Direct Injection Engine Fueled with Biodiesel of Used Temple Oil", International Conference on Innovative Trends in Electrical, Electronics and Bio-Technology Engineering (ICITEEB-2024), July 12-14, 2024, Chandigarh University, Gharuan, Mohali, Punjab (**Presented: Indexed in SCOPUS**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Saloni Mahadule, Sanjula Kalbande, Vedant Shirao, Shruti Potey, Sejal Dhande, and S. V. Khandal, "Comparative Analysis of Mental Health and Psychological Swotting in the Digital Era", 5th International Conference on Data Analytics & Management (ICDAM-2024), June 14-15, 2024, London Metropolitan University, London, UK (**Presented: Indexed in SCOPUS**)
- 2024 Varun Kadu, Pawan Kumar Mishra, Sarthak Dandhare, Jagdish Chandra Patni, Palash Chandel, Soham Pathak, and **Nilesh Bhaskarrao Bahadure**, "Student's Performance Prediction Using Machine Learning Algorithms- A Comparative Study", 2024 OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 4.0, Raigarh, India, 2024, pp. 1-6, doi: 10.1109/OTCON60325.2024.10687450. (**Indexed in SCOPUS**)

- 2024 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Jayesh Ikhar, Lavanya Chavan, Purva Mundada, Rishikesh Kumbhalkar, Vaishnavi Gulhane, and Nagrajan Raju "Comparative Analysis of Polarity of Text-based Sentiment Analysis", IEEE 3rd International Conference for Innovation in Technology (INOCON), March 01st - 03rd, 2024, Sai Vidya Institute of Technology, Rajanukunte, Bengaluru, Karnataka, India, 10.1109/INOCON60754.2024.10512041 (**Indexed in SCOPUS**)
- 2024 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Deep Raut, Yogesh Chendake, Sidheswar Routray, and D. P. Mishra, "Regression Model Selection for Life Expectancy Prediction: A Comparative Analysis of Imputation Techniques", 2024 4th International Conference on Advanced Research in Computing (ICARC), Belihuloya, Sri Lanka, 2024, pp. 49-54, doi: 10.1109/ICARC61713.2024.10499788. (**Indexed in SCOPUS**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Ramdas Khomane, Aditya Nittala, Abhinav Singh, Dev Chadawada, Om Bonde, Somesh Nagar, and Nagrajan Raju "Anemia Detection and Classification Using Data Analysis of Blood Samples", IEEE International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI-2023), December 29-30, 2023, vol. 1, pp. 1-5,SSIPMT, Raipur, India (**Indexed in SCOPUS**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Sachikanta Dash, Sasmita Padhy, Avilash Satpathy, and Sidheswar Routray "Rare Diseases Severity Prediction System Using a Machine Learning-based Technique", IEEE International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI-2023), December 29-30, 2023, vol. 1, pp. 1-6,SSIPMT, Raipur, India (**Indexed in SCOPUS**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Prasenjeet Damodar Patil, Sidheswar Routray, and Mahantesh Mattada "Enhancing Performance and Security Measures in Modern Automated Environments", in AIP Conference Proceedings International Conference on Artificial Intelligence and Data Engineering 2023 (AIDE-2023), December 19-20, 2023, NITTE Deemed to be University, India (**Presented: Indexed in SCOPUS**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Prasenjeet Damodar Patil, Sanjula Kalbande, Somesh Nagar, Shailaja Pipalatkhar, and Om Kuhikar "Machine Learning based Music Recommendation System from Spotify", Springer - 15th World Congress on Nature and Biologically Inspired Computing (NaBIC 2023), Lecture Notes in Networks and Systems, December 13-15, 2023, Machine Intelligence Research Labs (MIR Labs) (**Presented: Indexed in SCOPUS**)
- 2023 **Nilesh Bhaskarrao Bahadure**, Prasenjeet Damodar Patil, Raghav Birewar, Prateek Nayyar, Ashutosh Shrivastava, and Manmeet Oberoi, "Traffic Signal Detection and Recognition from Real-Scenes Using YOLO", 2023 IEEE Engineering Informatics, November 25 - 26, 2023, SGU Kolhapur and Swinburne University Australia, pp. 1-5, doi:10.1109/IEEECONF58110.2023.10520597 (**Indexed in SCOPUS**)
- 2022 Neeta Kulkarni, Rajin M. Linus, **Nilesh Bhaskarrao Bahadure**, "Flexible MIMO Antennas for Wireless Communication (5G Technology)", In Proceedings of Springer - Techno-societal 2022 4th International Conference on Advanced Technologies for Societal Applications (Techno Societal-2022), December 9-10, 2022. Pandharpur, Maharashtra, India (**Indexed in SCOPUS**)



- 2022 Neeta Kulkarni, **Nilesh Bhaskarrao Bahadure**, P.D. Patil, Jayshri Kulkarni, "Flexible MIMO Antennas for 5G Applications", In Proceedings of 10th IEEE International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET SIP-22), April 29-30, 2022. Nagpur, Maharashtra, India (**Indexed in SCOPUS**)
- 2020 Neeta Kulkarni, **Nilesh Bhaskarrao Bahadure**, P.D. Patil, and Jayshri Kulkarni, "Circular Patch Antenna with Comb-Shaped Slot for NR-79/Wi-Fi Applications", In Proceedings of IEEE REGION 10 CONFERENCE (TENCON - 2020) November 16-19, 2020, Osaka, Japan. (**Indexed in SCOPUS**)
- 2020 Uma Pujari, P.D. Patil, and **Nilesh Bhaskarrao Bahadure**, "Internet of Things based Integrated Smart Home Automation System", In Proceedings of Elsevier-SSRN 2nd International Conference on Communications and Information Processing (ICCIP), June 26 - 27, 2020, Pune, India. (**Indexed in SCOPUS**)
- 2017 **Nilesh B. Bahadure**, Arun Kumar Ray and H. Pal Thethi, "Feature Extraction and Selection with Optimization Technique for Brain Tumor Detection from MR Images", In Proceedings of IEEE International Conference on International Conference on Computational Intelligence in Data Science, June 2 - 3, 2017, Chennai (India). (**Indexed in SCOPUS**)
- 2016 **Nilesh B. Bahadure**, Laukesh Jaiswal, and Nitish Kumar, "Design of Education Simulation System for Control System and Image Processing Applications using Matlab", 4th International Conference on Science, Technology and Management, May 15, 2016, New Delhi (India), pp. 169 - 180, ISBN: 978-81-932074-8-2
- 2016 **Nilesh B. Bahadure**, Arun Kumar Ray and H. Pal Thethi, "Performance Analysis of Image Segmentation Using Watershed Algorithm, Fuzzy C - Means of Clustering Algorithm and Simulink Design", In Proceedings of IEEE International Conference on Computing for Sustainable Global Development, March 16 - 18, 2016, New Delhi (India), pp. 1860 - 1864, ISBN 978-93-80544-20-5. (**Indexed in SCOPUS**)
- 2016 **Nilesh B. Bahadure**, Arun Kumar Ray and H. Pal Thethi, "Performance Analysis of Soft Computing and Image Processing based Image Segmentation", In Proceedings of International Conference on Engineering Technologies and Big Data Analytics (ETBDA'2016), January 21-22, 2016, Bangkok (Thailand), pp. 30 - 34, ISBN: 978-93-84422-59-2 (**Full travel grant received from Chhattisgarh Council of Science & Technology Raipur, Chhattisgarh**)

#### National Journals

- 2015 **Nilesh B. Bahadure**, Laukesh Jaiswal and Nitish Kumar, "Design and Development of Educational Simulation Toolkit for Control System using GUI of Matlab" Lab Experiments (LE), Volume - 15, No. 4, pp. 242-248, December - 2015, ISSN: 0972 - 6055
- 2009 **Nilesh B. Bahadure**, "Wavelet Decomposition of Images Using Haar Transformation in MatLab" Lab Experiments (LE), Volume - 9, No. 3, September - 2009
- 2008 **Nilesh B. Bahadure**, "Speech Processing by linear predictive and voice excited predictive coding" Lab Experiments (LE), Volume - 8, No. 1, March - 2008



- 2007 **Nilesh B. Bahadure**, "Generation of AM, FM, AM - FM and Gaussian Modulated Communication signals using Matlab" Lab Experiments (LE), Volume - 7, No. 4, December-2007
- 2006 **Nilesh B. Bahadure** & R. H. Talwekar, "Design and Implementation Butterworth, Chebyshev, Elliptic Analog Filters using Matlab" Lab Experiments (LE), December-2006
- 2006 **Nilesh B. Bahadure** & R. H. Talwekar, "Frequency response of active and passive low pass filter using Matlab" Lab Experiments (LE), Volume - 6, No. 2, June-2006

#### National Conferences

- 2008 **Nilesh B. Bahadure**, "Integer Wavelets Based Lossy and Lossless Image Coder" in Proceeding of National level Conference Advances In Information & Communication Technologies - BITCON 2008, Bhilai Institute of Technology, Durg, pp. 53
- 2007 **Nilesh B. Bahadure**, D. P. Mishra & Dhananjay Mishra, "Role of WLAN in engineering Education" In National level conference on Advanced Communication Techniques BITCON-2007, Bhilai Institute of Technology, Durg, pp. 79 - 82.
- 2007 **Nilesh B. Bahadure**, R. M. Potdar & D. P. Mishra, "A Vital Role of Speech processing in Broadband" In National level conference on Broadband Communication BITCON-2007, Bhilai Institute of Technology, Durg, pp. 5-8
- 2007 **Nilesh B. Bahadure** & Bikesh Kr. Singh, "ECG Signal Processing and Detection of Arrhythmias" in Proceeding of National level Conference Technology for Sustainable Development - Perspective & Strategies 2007, Institute of Technology, Guru Ghasidas University, Bilaspur, pp. 78
- 2007 **Nilesh B. Bahadure** & D. P. Mishra, "Speech Processing using Linear Predictive Coding" in Proceeding of National level Conference Technology for Sustainable Development - Perspective & Strategies 2007, Institute of Technology, Guru Ghasidas University, Bilaspur, pp. 32
- 2005 **Nilesh B. Bahadure** & R. H. Talwekar, "OFF line ECG processing using MatLab" in proceeding of National Level Conference Advanced communication techniques-2005 , Bhilai Institute of Technology, Durg pp. 150 - 155

## PUBLICATION SUMMARY

Books Published = 13

Book Chapters Published = 03, Accepted = 01

International Journals (Published) = 20 (SCI/WoS = 8, SCOPUS = 11, Accepted = 03 (SCOPUS))

International Journals Communicated = 08 (SCI =2, SCOPUS = 06)

International Conferences = 20 + 15 (Presented)

International Conferences (Accepted)/(Communicated) = 16/04

National Journals/Conferences = 06/06

Total Books/Journals/Conference Publications = 70+

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📄 <https://sites.google.com/site/nileshbbahadure/home>

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## PROFESSIONAL LINKS/WEBPAGES

Personal Web Page: <https://sites.google.com/site/nileshbbahadure/home>

VIDWAN: <https://vidwan.inflibnet.ac.in/profile/217320>

Linkdin ID: <https://www.linkedin.com/in/nilesh-bhaskarrao-bahadure-ph-d-2396622b>

ResearchGate ID: [https://www.researchgate.net/profile/Nilesh\\_Bahadure](https://www.researchgate.net/profile/Nilesh_Bahadure)

Google Scholar: <https://scholar.google.co.in/citations?user=qkb0UPYAAAAJ&hl=en>

ORCID ID: <https://orcid.org/0000-0003-4361-3870>



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## PROFESSIONAL MEMBERSHIP

IEEE Member of Institution of Electrical and Electronics Engineering (IEEE), USA

ISTE Life Member of Indian Society of Technical Education (ISTE), New Delhi

IETE Life Member of Institution of Electronics & Telecommunication Engineering (IETE)

SESI Life Member of Solar Energy Society of India (SESI)

ISCA Life Member of The Indian Science Congress Association (ISCA)

IE Life Member of the Institution of Engineers (India)

ISRS Life Member of the Indian Society for Remote Sensing

IAENG Life Member of International Association of Engineers

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## SUBJECT THOUGHT

UG Microprocessor 8085, Advanced Microprocessors 8086, 80386, Microcontrollers & Embedded systems, Digital Signal Processing, Digital Electronics, Information Theory and Coding, Linear Integrated Circuits & Applications, Digital Image Processing, Signals & Systems, Control Systems, and Computer Fundamentals.

PG Microcontroller's & Embedded systems, Digital Measurement & Techniques, Programmable Logic Controllers, Soft Computing, Advanced Digital Signal Processing, and Biomedical Image Processing.

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## RECOGNITION & ACHIEVEMENTS

2022 **Invited Speaker** - Global Conference on "Semiconductors, Optoelectronics and Nanostructures" April 14-16, 2022, Porto, Portugal [\[Link\]](#)

2022 **Session Chair** - Springer - 2nd International Conference on "EMERGING TRENDS AND INNOVATIONS IN ICT (ICEI)" March 10-12, 2022, PICT, Pune, Maharashtra [\[Link\]](#)

- 2021 **PC Member** - Program Committee Member of the International Conference on Bioengineering, Biomedical Signal and Image Processing (BIOMESIP 2021), Granada (Spain), July 19-21, 2021 [\[Link\]](#)
- 2021, 2019, 2017 Reviewer and Technical Program Committee member for the IEEE International Conference on Intelligent Communication and Computational Techniques (ICCT' 2017, ICCT' 2019, ICCT'2021) at Manipal University Jaipur (<https://icct.co.in/committee.php>)
- 2021 Organizing Committee Member for 2021 International Conference On Mechanical, Automation And Computer Engineering June 29-30, 2021 in Chengdu, China (<http://www.icmace2021.org>)
- 2018 Brand Ambassador - Bentham Science Publishers Ltd. USA (100+ Journals, 35 of them are high indexed)
- 2018 Member of the Editorial - Board of International Journal of Imaging and Radiation Research, Singapore (<http://systems.enpress-publisher.com/index.php/IRR/about/editorialTeam>)
- 2017 Reviewer for the Springer - Journal of Medical and Biological Engineering, Elsevier - Journal of Biocybernetics and Biomedical Engineering and British Journal of Mathematics & Computer Science
- 2015 Signed Institute MOU with National Institute of Electronics and Information Technology - NIELIT (An Autonomous Scientific Society of Department of Electronics and Information Technology, Ministry of Communications & Information Technology, Government of India) to start All India PG Diploma Programs in VLSI & Embedded Systems at Bhilai Institute of Technology Raipur.
- 2015 Signed Institute MOU with "National Institute of Solar Energy - NISE (An Autonomous Institute of Ministry of New & Renewable Energy, Government of India), New Delhi" for training courses, PG diploma courses, training programs and other professional courses on renewable energies at Bhilai Institute of Technology Raipur.
- 2015 Member of the Editorial - Board of International Journal of Electronic Design Engineering (MAT Journals <http://matjournals.in/index.php/JOEDE/about/editorialTeam>)
- 2014 Member of the Editorial - Board of International Journal of Advanced Engineering and Innovative Technology (<http://ijaeit.com/Editorial-Board.html>)
- 2007 Selected by Royal University of Bhutan for the Lecturer Grade B (Under Civil Services of Bhutan) in the Department of Electrical Engineering, Royal Bhutan Institute of Technology, Phuentsholing, Bhutan.

## EXPERT LECTURE

- 2023 "Basics of AI and ML Applications in IoT" Sponsored by Indian Society for Technical Education, at Department of CSE, GNIET, Nagpur on August 25, 2023
- 2023 FDP on "LaTeX" organized by Symbiosis Law School (SLS), Nagpur and Symbiosis Teaching Learning Resource Centre (STLRC) of Symbiosis International (Deemed University) (SIU) Pune, at SLS Nagpur on 25th March 2023.

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## TRAINING PROGRAM COMPLETED

- 2025 Completed Training Program on “Incubation and Accelerator Manager’s Capacity Building Program” Sponsored by SSIP, Gujarat Knowledge Society (GKS), Directorate of Technical Education, Education Department, Government of Gujarat, Organized by Entrepreneurship Development Institute of India (EDII) Ahmedabad, during March 17-22, 2025
- 2023 Completed Training Program on “Moodle4Everyone” Organized by Quality Management & Benchmarking, Symbiosis International (Deemed University), Pune, India on February 2, 2023
- 2019 Completed 8 weeks Online Training Program on “Roadmap for Patent Creation” of NPTEL Online Certification, during Jan - March 2020
- 2019 Completed 9 hours of Online Training Program on “Everything You Need to Program in Python” of Udemy on October 25, 2019
- 2019 Completed 1 week Online Training Program on “Python 3 Tutorial Course” of Sololearn on October 18, 2019

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## WORKSHOPS/STTPs/FDPs ATTENDED

- 2023 Attended One-week FDP on “Role of Machine Learning in Societal Development”, Organized by AICTE Training And Learning (ATAL) Academy Faculty Development Program at Priyadarshini College of Engineering, Nagpur from December 04, 2023 to December 09, 2023 (ATAL/2023/1697440402).
- 2023 Attended 3 Day Professional Development Programme on “Outcome Based Assessment”, Organized by National Institute of Technical Teachers’ Training and Research, Chennai, Ministry of Education, Government of India from November 29, 2023 to December 01, 2023 (2023-24-PDPOM-189/10557).
- 2023 Attended 7 Day National Level Online Faculty Development Programme on “Curriculum framework in line with NEP 2020, OBE and AI Advancements”, organised by The Internal Quality Assurance Cell (IQAC) of Mar Thoma College for Women, Perumbavoor, in association with The Kerala State Higher Education Council (KSHEC) from 12 October 2023 to 19 October 2023.
- 2023 Attended one day FDP on “Identifying Predatory/Clone Journals”, jointly organized by Symbiosis Centre for Management Studies, Nagpur & Symbiosis Teaching Learning Resource Centre, on 30 September 2023.
- 2023 Attended two day workshop on “How to avoid desk rejection in the top journals? & About Confirmatory Factor Analysis and Structural Equation Modeling”, jointly organized by Symbiosis Institute of Business Management, Nagpur & Symbiosis Teaching Learning Resource Centre, on 4 & 5 May 2023
- 2021 Attended three days FDP on “Research Funding Projects & IPR”, Organized by R & D Cell, IQAC, and Department of EXTC, Computers & IT, KC College of Engineering and Management Studies & Research, Thane, from June 7, 2021 to June 9, 2021.

- 2021 Attended one day Webinar on “Digital Resources Essential for Faculty & Student-Centered Learning in the New Normal- IEEE’s Perspective”, Organized by EBSCO & IEEE, 1st June 2021.
- 2021 Attended one day Webinar on “Protecting Satellite Images Against Attacks using AI and Image Processing Techniques”, Organized by The Emirati Society of GIS and Remote Sensing (ESGRS), University of Dubai, UAE, 20th May 2021.
- 2021 Attended one day Webinar on “An Introduction to Engineering Applications of Artificial Intelligence (EAAI) and the IFAC Family of Journals: a Webinar for Authors and Editors of the Future”, Organized by Elsevier, 18th May 2021.
- 2015 Attended 3 days capacity building workshop on “Energy Auditors and Managers”, Organized by FICCI and Shakti (Sustainable energy foundation), Raipur, 8 - 10 September, 2015.
- 2010 Attended 1 week training program on “Advanced Topics of Digital Signal Processing”, Organized by Defense Institute of Advanced Technology (Deemed University), Girinagar, Pune, 17 - 21 May, 2010.
- 2009 Attended 2 Weeks training program on “Hands-on with ARM: Programming Embedded Systems”, Organized by C-DAC Hyderabad in collaboration with JNTU Hyderabad, 02 - 13 Nov 2009.
- 2009 Attended 5 days short term course on “Embedded System Design”, at Indian Institute of Technology (IIT), Kharagpur, 2 - 6 February 2009.

[\[Link \(Certificates\)\]](#)

**Total Workshop/STTPs Attended = 13**

## WORKSHOPS/FDP/STTPs ORGANIZED

- 2022 Coordinator for Two Days National Level Workshop on “ $\text{\LaTeX}$ :A Document Preparation System”, Sponsored by LEAD - Shivaji University, Kolhapur, organized by Department of Electronics Engineering, Sanjay Ghodawat Group of Institutions, Atigre, Kolhapur during **April, 29 - 30, 2022**.
- 2020 Coordinator for One Week National Level FDP on “Scientific & Technical Writing Tools”, Sponsored and funded by Electronics & ICT Academy (An Initiative of Ministry of Electronics & IT, Govt. of India), IIITDM Jabalpur, organized by Department of Electronics Engineering, Sanjay Ghodawat University Kolhapur, from January 6 - 11, 2020.
- 2019 Coordinator for One Week National Level STTP on “A Document Preparation System using  $\text{\LaTeX}$  and Programming using Matlab: Indispensable Tools for Research”, Sponsored by Indian Society for Technical Education (ISTE) New Delhi, organized by Department of Electronics Engineering, Sanjay Ghodawat University Kolhapur, from December 16 - 20, 2019.
- 2019 Coordinator for Two Days National Level Workshop on “ $\text{\LaTeX}$ :A Document Preparation System”, Sponsored by LEAD - Shivaji University, Kolhapur, organized by Department of Electrical Engineering, Sanjay Ghodawat Group of Institutions, Atigre, Kolhapur on March, 15 - 16, 2019.

- 2018 Coordinator for One Week National Level STTP on “A Document Preparation System using  $\text{\LaTeX}$  and Programming using Matlab: Indispensable Tools for Research”, Sponsored by Indian Society for Technical Education (ISTE) New Delhi, from June, 25 - 29, 2018.
- 2017 Coordinator for One Week National Level STTP on “ $\text{\LaTeX}$ : A Document Preparation System”, Sponsored by Indian Society for Technical Education (ISTE) New Delhi, June, 26 - 30, 2017.
- 2016 Coordinator for Three Days International Workshop on “Matlab Programming, Simulink & GUI with Applications of Digital Image Processing using Matlab”, sponsored by Chhattisgarh Council of Science & Technology Raipur, April 16 - 18, 2016
- 2016 Coordinator for Three Days National Level STTP on “ $\text{\LaTeX}$  : A Document Preparation System”, Sponsored by Indian Society for Technical Education (ISTE) New Delhi, April 11 - 13, 2016.
- 2015 Co-coordinator for Two Days State Level Workshop on “ $\text{\LaTeX}$  : A Document Preparation System”, Sponsored by Chhattisgarh Council of Science & Technology (CGCOST) Raipur, October 31 - November 01, 2015.
- 2015 Coordinator for One Week National Level STTP on “Applications of Electronics using Matlab Programming, Simulink and GUI of Matlab”, sponsored by Indian Society for Technical Education (ISTE) New Delhi, June 15 - 19, 2015.
- 2015 Coordinator for One Week National Workshop on “Microcontroller’s & Embedded System Design”, sponsored by Chhattisgarh Council of Science & Technology Raipur and supported by National Instruments Bangalore, June 15 - 17, 2015.
- 2015 Coordinator for Workshop for Faculties on “Scilab” organized by BIT Raipur in collaboration with Spoken Tutorial, IIT Bombay, January 23, 2015.
- 2015 Coordinator for Workshop on “Oscad” organized by BIT Raipur in collaboration with Spoken Tutorial, IIT Bombay, January 16, 2015.
- 2015 Coordinator for Workshop on “Scilab” organized by BIT Raipur in collaboration with Spoken Tutorial, IIT Bombay, January 12, 2015.
- 2014 Coordinator for Workshop for faculties on “ $\text{\LaTeX}$ ” organized by BIT Raipur in collaboration with Spoken Tutorial, IIT Bombay, December 30, 2014.
- 2012 Coordinator/Organizer for 1 week workshop on “Matlab, Simulink and Designing of GUI” organized by BIT Raipur sponsored by Chhattisgarh Council of Science & Technology Raipur, June 25 - 30, 2012.
- 2009 Coordinator for the in-house workshop on “MatLab & Simulink” organized by Department of Electronics & Telecommunication Engineering, BIT Durg, May 14 - 15, 2009.
- 2007 Co - Coordinator for the Workshop on “Trends of Instrumentation & Control System towards Environmental Challenges” organized by BIT Durg and sponsored by Chhattisgarh Council of Science & Technology Raipur, October 5 - 6, 2007.

**Total Workshop/FDP/STTPs Organized = 17**

## INTERNATIONAL/NATIONAL CONFERENCES ORGANIZED

- 2014 Convener/coordinator for International Conference on “Emerging Trends in Electrical, Electronics, Instrumentation & Computer Engineering” organized by BIT Raipur in collaboration with Institute of Research and Development India, March 28, 2014.
- 2013 Coordinator for National Seminar on “Recent Advances on Meteorology, Climatology and Environment” organized by BIT Raipur, sponsored by Chhattisgarh Council of Science & Technology Raipur and Indian Meteorology Society Raipur, October 25, 2013.
- 2008 As a Member of the team of BIT Durg, organized a National Conference, BITCON - 2008, November 7 - 8, 2008.
- 2007 As a Member of the team of BIT Durg, organized a National Conference, BITCON - 2007, at BIT Durg, April 3 - 4, 2007.
- 2005 As a Member of the team of BIT Durg, organized a National Conference, Advanced Communication Techniques, ACT - 2005, at BIT Durg, 2005.

**Total International/National Conference Organized = 05**

## OTHER RESPONSIBILITIES

- 2019 - 2022 HOD - Electronics Engineering, Sanjay Ghodawat University Kolhapur from June 2019 to May 2022.
- 2012 - 2019 Professor in-charge for all online/offline examination conducted at BIT Raipur for public sectors (GATE, CGHB, CGPSC etc).
- 2012 - 2019 Coordinator for the vocational/summer training courses conducted by Bhilai Institute of Technology Raipur.
- 2012 - 2019 Hostel Warden for boy's hostel at Bhilai Institute of Technology Raipur campus, Raipur.
- 2012 - 2019 Dean Research and Development at Bhilai Institute of Technology Raipur.
- 2012 - 2019 Management Representative for National Assessment and Accreditation Council (NAAC) and National Bureau of Accreditation (NBA).
- 2010 - 2019 Member in the Board of Bhilai Institute of Technology Raipur Trust as a faculty representative.
- 2010 - 2013 Worked as Sr. Exam Superintendent for University Examination from August 2010 to July 2013.
- 2005 - 2010 Supervised and Graduated 8 + M.Tech Students.
- 2005 - 2010 Worked as Prof In-charge for ISO 9001:2000 Certification for the Department of Electronics & Telecommunication Engineering, BIT Durg for the period of 2005 to 2010.



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## REFERENCES

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## DECLARATION

I am committed to advancing my career by contributing diligently to the achievement of my organization's objectives. Furthermore, I hereby declare that the information provided above is accurate and true to the best of my knowledge and belief.

Date: March 23, 2025

Place: Nagpur, Maharashtra, India



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**Dr. Nilesh Bhaskarrao Bahadure**