

Dr. Narendrasinh C Chauhan

(PhD, IIT Roorkee-2010)

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Professor & Head

Department of Information Technology
A D Patel Institute of Technology
(A Constituent College of CVM University)
New Vallabh Vidyanagar - 388 121
Anand, Gujarat, India

Objective:

- To enhance my knowledge & skills and utilize my potential & contribute for the growth of my organization, country and society.

Educational Qualifications:

- Ph.D. (Electronics & Computer Engineering): Indian Institute of Technology, Roorkee in March 2010.
- M.E. (Computer Engineering): BVM Engineering College, V. V. Nagar, Anand in 2005 (First Class)
- B.E. (Computer Engineering): BVM Engineering College, V. V. Nagar, Anand in 2001(First Class)
- H.S.C (Science): Gujarat Secondary and Higher Secondary Education Board, May 1997 (Distinction)
- S.S.C: Gujarat Secondary and Higher Secondary Education Board, May 1997 (Distinction)

Expertise and Area of Interest:

- Use of Artificial Intelligence in Real-time Applications, Machine Learning, Data Analytics, Soft Computing, Image & Video Processing, Approximate Modeling & Engineering Design Optimizations

Professional Experience:

- **Teaching experience: 20+ years**
 - Presently, working as **Professor & Head (IT)** at A D Patel Institute of Technology, New V.V.Nagar, Anand, Gujarat, India since 1st March 2014 till date.
 - Worked as **Associate Professor** at A D Patel Institute of Technology, New V V Nagar, Anand, Gujarat, India since 22nd October 2008 to 28th February, 2014.
 - Worked as **Assistant Professor (formerly Lecturer in Vth Pay scale)** at A. D. Patel Institute of Technology, New V.V.Nagar, Anand, Gujarat, India (16th Jan 2004 to 21st October 2008)
 - Worked as **Trainee (Adhoc) Lecturer** in A.D.Patel Institute of Technology, New V.V.Nagar, Anand, Gujarat, India (6th October 2003 to 15th Jan 2004)
 - Worked as **Visiting Faculty** at A. D. Patel Institute of Technology, New V.V.Nagar, Anand, Gujarat, India (15th July 2003 to 5th October 2003)
 - Worked as **Visiting Faculty** in Birla Vishwakarma Mahavidyalaya, V.V.Nagar, Anand, Gujarat, India (from January 2002 to June 2003).
 - Worked as **Lecturer** in Pramukhswami Computer Institute, V.V.Nagar, Anand, Gujarat, India (from July 2001 to January 2002).
 - Worked as **PG Teacher (Visiting)** at BVM Engineering College since February-2009 to June-2020. Also worked as PG Teacher (Visiting) at GCET, V V Nagar for one semester.
- **Research Experience:** Around 3 years of R&D experience (PhD duration) as Research Fellow in the Department of Electronics and Computer Engineering, Indian Institute of Technology Roorkee.
- **PhD Thesis Topic:** Soft Computing Methods for Design Applications in Microwave Domain.
- **Recognized Ph.D. Supervisor:** CVM University (Anand), Gujarat Technological University (Ahmedabad); Previously PhD supervised at CHARUSAT University (Changa), R K University (Rajkot)

Academic and Administration Involvements:

- Head of Department of Information Technology, ADIT (Since 1st March, 2014)
- Institute IQAC Coordinator (since 31st March, 2020)
- Member of CVMU IQAC-NAAC team (since 12th March, 2020)
- Member, Board of Studies, FoET (Computer Engineering), CVMU (Since 31st August, 2020)
- Member, Board of Studies, Computer Engineering, Gandhinagar University (Since 31st August, 2020)
- Member, Board of Studies, Information Technology, Sigma University (Since 24th June, 2023)
- ISO Process Owner – IT Services, ADIT (since 11th September, 2020)
- Institute Academic Section Incharge; Institute University (GTU) Coordinator; ISO Process Owner – Academic Section (2nd July, 2012 to 28th February, 2014)
- Institute NBA Coordinator (15th February, 2018 to 30th April, 2019)

- Member, Institute Grievance and Redressal Cell (Since 20th November, 2019)
- Member of CORE team (Since 6th July, 2017)
- Member, CVMU Frontline Research Team (CFRT) (22nd November, 2022)
- Member, IT-Computer Department Time Table Committee (15th July, 2004 to 31st December, 2005)
- Member of Admission Committee (different years)

Publication Summary:

- Book: 02
- Book Chapter: 05
- International Journals: 30
- International Conferences: 26
- National Journals: 02
- National Conferences: 06

Academic Identity and Research Indexes:

- Google Scholar ID: rH3s4d8AAAJ
- Researcher ID: GZK-9282-2022
- Scopus ID: 24075311200
- CVMU IRINS Vidwan ID: 318777
- Orcid ID: 0000-0002-2165-9694
- Scopus H-index: 06 (as on 31/3/2024)
- Google Scholar Citations: 660 (as on 31/3/2024)
- Google Scholar H-index: 14 (as on 31/3/2024)
- Google Scholar i10-index: 17 (as on 31/3/2024)
- Research Gate (Reads): 12449 (as on 31/3/2024)
- Research Gate (Citations): 422 (as on 31/3/2024)
- Web of Science: 25 publications; 05 (H-index) (as on 31/3/2024)

R&D Projects:

Project Title and duration	Role	Funding Agency
Project titled "A smart robot to assist Healthcare workers" (Since 7/12/2023)	PI	GUJCOST
Minor research project on "Agricultural pesticide fertilizer spraying Drone" (Since 22/9/2023)	Co-PI	CVM Uni.
Minor research project on "Analyzing effects of Disaster on Crop-yield using Satellite and UAV Data" (Since 22/9/2023)	Co-PI	CVM Uni.

I have also worked with following problems:

- **Data Analytics problems** such as, Educational Data Mining, Incremental Mining, Image Mining, Multi-relational Data Mining, Frequent Pattern Mining, Sequential Pattern Mining, Time Series Forecasting, Automated Text Summarization, etc.
- **Image processing problems** such as, Dental Image Analysis, Brain-Tumor

- Detections from MRI, Handwritten character recognition, face detection & recognition, fingerprint recognition, character recognition, image & video watermarking, computer vision stereo matching, Face Recognition, video surveillance, etc.
- **Design and optimization of Microwave components** such as, Microstrip Antennas, Microwave Filters, etc. using novel soft computing methods and EM simulation tools
 - Design and optimization of High Power Gyrotron components such as Nonlinear tapers, RF windows, etc. using novel soft computing methods and EM simulators
 - Image Retrieval using Color Feature Extraction (M.E. Dissertation)
 - Securing On line shopping using Cryptography (B.E. Project)

PhD and PG Research Guidance:

- **No. of PhD students guided: 05 (Degree awarded)**
 - *Thesis-1:* Automated Tumor detection and Analysis of Brain images using Statistical and Computational Techniques (R K University, June-2016)
 - *Thesis-2:* Dental Image Analysis for Disease Diagnosis (R K University, October-2018)
 - *Thesis-3:* Human Activity Recognition in Group Video Environments (CHARUSAT University, July-2019)
 - *Thesis-4:* Prediction of Sea Surface Temperature using Machine Learning Techniques (Gujarat Technological University, May-2021)
 - *Thesis-5:* Evolutionary Dimensionality Reduction Models for Predictive Analytics in Education Domain (Gujarat Technological University, Aug-2023)
- **No. of Ph.D. students under guidance: 05**
 - *Thesis Title-1:* Deep Learning Approaches for Multi-view Object Detection and Tracking
 - *Thesis Title-2:* Dynamic Malware Analysis using Machine learning
 - *Thesis Title-3:* Document Similarity based Automatic Subjective Assessment using Machine Learning and NLP
 - *Thesis Title-4:* Crowd Anomaly detection from Surveillance Video using Deep Learning
 - *Thesis Title-5:* Deception detection using Linguistic analysis and Machine learning techniques
- **No. of M.E. Dissertations guided: 20**
- No. of B.E. Projects guided: 30+

Expert Talks Delivered (International/National/State-level/Local):

1. Delivered an invited expert talk on “Soft Computing Methods for Engineering Applications” at G.H.Patel College of Engineering and Technology, Anand in 2009.
2. Delivered an Invited expert talk on “Artificial Neural Network and Its Engineering Applications” at a National Seminar on “Advances in Mathematics: Historical Development and Engineering Applications” at

- Madhuben and Bhanubhai Woman Institute of Engineering (MBICT), Anand, on Jan 9, 2012.
3. Delivered a Session talk on “Soft Computing methods for engineering applications” at a National Conference on Technology and Management (NCTM-2012) at Sankalchand Patel College of Engineering (SPCE), Visnagar, on Jan 21, 2012.
 4. Delivered an expert talk on “Emerging Demand of ‘C’ in Current Era” in ISTE Approved STTP on “Emerging Trends in ‘C’ Programming” at Sad Vidya Mandal Institute of Technology (S.V.M.I.T.), Bharuch on April 16, 2012.
 5. Delivered an invited guest lecture on “Association Rule Mining” at Marwadi Institute of Technology on May 07, 2012.
 6. Delivered an invited guest lecture on “Soft Computing Methods” at Babariya Institute of Technology (BITS Edu Campus) on September 12, 2012.
 7. Delivered a Plenary talk on “Soft Computing methods for engineering applications” at National Conference on “Computer Science and Security” (COCSS-2013) at Sardar Vallabhbai Patel Institute of Technology (SVIT), Vasad on April 06, 2013.
 8. Delivered an invited expert talk on “Soft Computing Methods and Their Applications to Engineering Problems” in 15th Refresher Course: Emerging Trends in Engineering and Technology, at Academic Staff College, V.V.Nagar, Anand on 06-March-2013.
 9. Delivered an Invited talk on “Soft Computing Methods for Engineering Optimizations” under IEEE student branch at MBICT, New V V Nagar on 09-March-2013.
 10. Delivered an invited expert talk on “Computational Intelligence: Concepts, Applications and Hybridizations” in the STTP on “Recent Trends in Computational Intelligence” at A D Patel Institute of Technology, New V V Nagar, Anand on 04-July, 2013.
 11. Delivered an Invited expert talk on “Application of Soft Computing in Image Processing and Data Mining” at VVP Engineering College, Rajkot on August 12, 2013.
 12. Delivered two expert sessions on “Fuzzy Logic and Genetic Algorithm” and “Soft Computing Classification Methods” in an ISTE approved STTP on “Recent Trends in Video Processing & Soft Computing” held at Dharmasinh Desai University on 26-June, 2015.
 13. Delivered an expert talk on “Applications in Soft Computing Techniques in Image Processing” in an STTP on “Advanced Image and Video Processing” held at G.H.Patel College of Engineering and Technology on 20-October, 2015.
 14. Delivered invited talk on “Neuro-Fuzzy systems for classification and control applications” in a two days workshop on “” at CGPIT, Bardoli on May 28, 2016.
 15. Delivered an expert talk on “Applications of Soft Computing in Image Processing and Data Mining” in a one week Workshop on “Soft Computing and Network Security” at Government Women Engineering College, Ajmer on 15th November, 2016.
 16. Delivered an expert talk on “Reinforcement Learning” in a National level STTP on “Machine Learning for Big Data Analytics” at G H Patel College of Engineering at Technology on 25th November, 2016.
 17. Delivered an expert talk on “Classification and Prediction Applications of ANN and SVM” in a 5-days STTP on “Applications of Data Mining With Big

- Data Analytics” at C. G. Patel Institute of Technology, Uka Tarsadia University, Bardoli on 11th January, 2017.
18. Delivered two lectures on “(i) Data Mining: Concepts and Techniques (ii) Introduction to Big Data and Big Data Analytics” in a Certification Course on “An Introduction to Programming the Emerging Services for Cloud, Big-data and IoT” organized by Computer Engineering Department, ADIT from August-17 to July-18.
 19. Delivered an expert talk on “Neural Networks and its Applications” in an STTP on “Machine Learning and its Applications” at BVM Engineering College, V V Nagar on 22nd December, 2017.
 20. Delivered an expert talk on “AI and Machine Learning” in an FDP on “Applications of Artificial Neural Networks in Various Fields of Engineering” at A D Patel Institute of Technology on 10th March, 2018.
 21. Delivered an expert talk on “ANN and Deep Learning” in a Refreshers’ course on “Applications of ICT in Science” at UGC-HRDC, SPU on 29th June, 2018.
 22. Delivered an expert talk on “Introduction and Trends in Data Science” in a two days workshop on “Recent trends in data science” at C G Patel Institute of Technology, UkaTarsadiya University, Surat on 10th May, 2018.
 23. Delivered Expert talk on “Introduction to AI and Machine Learning” in a Two days Seminar on “Optimization and Prediction of Parameters using ANN and GA” on 20/07/2018 at Department of Mechanical Engineering, ADIT.
 24. Delivered Expert talk on “Introduction to AI and Machine Learning” in a Two days Seminar on “IoT and Machine Learning” on 26/07/2018 at Department of Electrical Engineering, ADIT.
 25. Delivered Expert talk and Hands-on Session on “Association Rule Mining” during a two week STTP on “Python Programming and Applications” at BVM Engineering College on 30/11/2018.
 26. Delivered Expert talk on “Artificial Neural Networks” at Vishwakarma Government Engineering College (VGEC), Ahmedabad on 19/10/2018.
 27. Delivered Invited Expert sessions on “Artificial Neural Networks” and “Deep Learning” at Department of Computer Science & Engineering, Faculty of Technology & Engineering on 31/5/2019 and 01/06/2019 during a two week STTP (FDP) on Machine Learning & IOT organized by The Maharaja Sayajirao University of Baroda in Collaboration with MNIT, Jaipur during 29th May, 2019 - 08th June, 2019.
 28. Delivered two Invited Expert talks on “Introduction to Machine Learning and Its Applications” and “Introduction to Deep Learning” respectively on 10th and 11th June, 2019 during a One Week STTP on “EF-IOT: Recent Advances in Edge and Fog Computing for Internet of Things” at A D Patel Institute of Technology.
 29. Delivered an Expert Talk on “Continuous Improvement” during an FDP on “Outcome based Education & Accreditation” at MBIT on 18th October, 2019.
 30. Delivered an Invited talk on “Important Mathematical Elements for Neural Networks, Support Vector Machine and Convolutional Neural Networks” at an International Conference on “History and Recent Developments in Mathematics, with Applications in Science and Technology (ICHDMAST 2019)” held at Madhuben & Bhanubhai Patel Institute of Technology, New Vallabh Vidyanagar, Anand during 17-19 December, 2019.
 31. Delivered an Invited Expert Talk on “Deep Learning: Trends and Applications” at the “National Seminar on Emerging Trends in Computer

- Applications: ETCA-2020” organized by Department of Computer Applications, Faculty of Science, The Maharaja Sayajirao University of Baroda on 29th February, 2020.
32. Delivered an expert talk on “Artificial Intelligence: Reasoning and Applications” at DEPSTAR, Charusat University on 25th September, 2020.
 33. Delivered an expert talk on “Hadoop Ecosystem Environment” at DEPSTAR, Charusat University on 16th August, 2021.
 34. Delivered an Expert talk on “Applications of Machine Learning and Deep Learning in Computer Vision” on 4th February, 2022 in a One Week International FDP on “Computer Vision and Image Processing” organized by SKIT, Jaipur. I also served as Guest of Honor for the same FDP on 31st January, 2022.
 35. Delivered an Expert Talk on “Introduction to Various Soft Computing Techniques” in a Three Day National Level Workshop on “Soft Computing Techniques using MATLAB for Engineering Solutions” (Sponsored by GUJCOST, Gandhinagar) at Parul University on 24th March, 2022.
 36. Delivered an Expert talk on “Introduction to Data Analytics and Applications” on 4th July, 2022 in a Six Days STTP on “Data Analytics and Visualization” organized by SVIT, Vasad.
 37. Delivered two Expert sessions on “AI (Heuristic Search) using Python” and “Genetic Algorithms using Python” on 14th and 15th September, 2022 respectively in a Value Aided Course on “AI and ML” organized by Faculty of Technology and Engineering, MS University, Vadodara.
 38. Delivered an Expert Session on “Data Analysis and Presentation” on 14th October, 2022 in a Five Day National Level Virtual FDP on “Recent Trends in Research Methodologies and Tools” organized by K G College of Arts and Science, Coimbatore.
 39. Delivered an Expert Talk on “Neural networks for classification, regression and clustering” in a GUJCOST Sponsored One Week STTP on “Recent Advancements in Machine Learning and IoT” organized by GSFC University, Vadodara on 16th November, 2022.
 40. Delivered an Expert Talk on “Video Analytics: Concepts and Applications” in an ATAL FDP on “Social Media and Social Network Data Mining (SMSNDM)” organized by SVNIT, Surat on 12th January, 2023.
 41. Delivered an expert talk on “The Evolution of Artificial Intelligence in Scientific & Technological Endeavours” in “84th Online Refresher course: Basic and Applied Sciences” at UGC-MMTTC, Sardar Patel University, Anand on 13th December, 2023.
 42. Delivered an Expert Talk on “AI Horizons: Evolution, Present Status and Recent Trends” in a One Day International Seminar on “Opportunities Emerging Around Artificial Intelligence” organized by KSET, KPGU, Vadodara on 23rd January, 2024.

Served as Resource Person:

- Member of Selection Committee – Faculty Selection, Staff Selection, PhD candidate selection at various colleges and Universities
- Served as GATE exam Centre Incharge
- PhD Thesis Examiner: Rastriya Raksha University (Gandhinagar); KSV (Kadi),

- Ganpat University (Mehsana), UTU (Bardoli)
- PhD – Doctoral Research Progress Committee member: SVNIT (Surat), PDEU (Gandhinagar), GTU (Ahmedabad), DDU (Nadiad), Parul University (Vadodara), Charusat University (Changa, Anand)
- Resource Person (Expert Speaker, Session Chair, Guest of Honor, Reviewer, Technical Advisory Committee member) in International & National Conferences
- Member of Academic Inspection Committee, GTU (2012; 5/5/2016)
- Mentor and Evaluator – Smart India Hackathon-2022
- Jury Member in Competitions, Hackathons, Toycathon
- Resource person for guidance of NBA preparation at different institutions

Events Coordinated:

- Coordinated a series of Workshops for FOSS during 20-31 December, 2011 at ADIT under Spoken Tutorial Project of IIT Bombay.
- Coordinated an Expert Talk on “Industrial Applications and Research Opportunities in Artificial Intelligence” on 2nd April, 2013 at ADIT.
- Coordinated a guest lecture on “Machine Learning, Image Processing and Applications” on 17th August, 2013 at ADIT.
- Coordinated a seminar on “SEO and Internet Marketing” on 21st August, 2014 at ADIT.
- Coordinated a seminar on “Opportunities with Certification courses in IT industry” on 2nd August, 2015 at ADIT.
- Coordinated a seminar on “SAS Awareness and SAS Opportunities in Today’s Corporate World” on 7th September, 2016 at ADIT.
- Coordinated an FDP on “Industrial Practices on Software Development” on 25th March, 2017 at ADIT.
- Coordinated a webinar on “Recurrent Neural Networks and Applications” on 6th August, 2021 at ADIT.
- Coordinated an “Online Mock GATE Exam” on 21st August 2021 under IQAC at ADIT.
- Coordinated “A Discussion on Accreditations, NEP and Examination Reforms” on 5th October, 2021 under IQAC at ADIT.
- Coordinated and participated in an Industrial visit at ‘eInfochips’, Ahmedabad on 21st March 2022 with Third year IT students.
- Coordinated a one day faculty workshop on “NEP Adaptation” on 11th December, 2021 at A D Patel Institute of Technology.

Events Attended (for Knowledge Growth):

Name of Course/Program attended	Date/Duration	Organizing Institute
Naitonal Symposium on Data & Knowledge Engineering - 2004	21st Feb, 2004	A D Patel Institute of Technology, Anand
National Seminar on Latest Trends in Communication Systems and Technology - 2004	13th March, 2004	A D Patel Institute of Technology, Anand

“Science & Technology Exhibition” and “Educational Exhibition”	13-15 August, 2004	Charutar Vidya Mandal (CVM), Vallabh Vidyanagar
AICTE – ISTE Sponsored STTP on “Object Oriented Analysis & Design Using Rational Enterprise Suite (OOADRS)”	20 th Dec, 2004 to 31 st Dec, 2004	Rajarambapu Institute of Technology, Rajaramnagar, Dist. - Sangli (M.S.)
AICTE/ISTE Sponsored STTP on “Data Mining and Genetic Algorithms”	23 rd Nov, 2004 to 27 th Nov, 2004	A D Patel Institute of Technology, Anand
9th Annual ISTE Gujarat Section Convention and Symposium on “Employing Technologies for Rural Upliftment”	5th December, 2004	ISTE Chapter, Education Campus, Changa
One day workshop on “Numerical Methods & Computer Programming”	19th April, 2005	A D Patel Institute of Technology, Anand
2nd National Symposium on Data & Knowledge Engineering - 2005	25th September, 2005	A D Patel Institute of Technology, Anand
Workshop on “Communication Technologies”	1 st March, 2006 to 3 rd March, 2006.	Indian Institute of Technology Roorkee
National Workshop on Support Vector machines (NWSVM)	9 th Nov, 2006 to 11 th Nov, 2006	Indian Statistical Institute, Kolkata
One day symposium on Signal Processing, Image Processing and Communication	18th April, 2009	A D Patel Institute of Technology, Anand
QIP Course on “Vision, Graphics and their Applications”	21 st Dec, 2009 to 25 th Dec, 2009	Indian Institute of Technology Roorkee
One day regional seminar on “XXI Century: Priorities in Technical and Higher Education”	3rd August, 2011	CVM & ISTE, Gujarat Section
GUJCOST Sponsored One day National Symposium on “Internet of Things”	15th February, 2016	G H Patel College of Engineering & Technology, Anand
One day National Seminar on “Electronics 2020 and Beyond”	16th July, 2016	A D Patel Institute of Technology, Anand
FDP on “Big Data and SAS Business Analytics”	26-28 Dec, 2016	Epoch Research Institute, Ahmedabad
NAAC Accreditation	14 th March, 2020	BVM Engineering College
Expert talk on “Future of Engineering”	15 th September, 2020	A D Patel Institute of Technology, Anand

ATL FDP on “Speech Processing using Deep Learning”	28 th Dec 2020 to 1 st Jan, 2021	IIT Dharwad
MOOC course “Introduction to Data Analytics”	7 th Sep, 2022	IBM-Coursera

Skill Set:

- Programming Skills: C, C++, Java, MATLAB, R, Python
- Database Systems: Oracle, Microsoft Access, NoSQL (MongoDB)
- Operating System: Microsoft Window, Linux
- AI Tools and Development frameworks: ChatGPT, TensorFlow, Keras
- Development Tools: Rational Enterprise Suite, IE3D Electromagnetic Simulator, WEKA
- Application Software: Latex, Origin

Member of Professional Bodies:

- Life member of ISTE (Indian Society of Technical Education).
- Life Member of IE (Institution of Engineers, India).

List of Publications:

BOOK AUTHORED:	
[1]	N. C. Chauhan , M. V. Kartikeyan, and A. Mittal, “Soft Computing Methods for Microwave and Millimeter-wave Design Problems”, Studies in Computational Intelligence Series, Springer-Verlag, Berlin-Heidelberg, Germany, March 2012 (ISBN 978-3-642-25562-5).
[2]	Kavindra R. Jain, and N. C. Chauhan , “Dental Image Analysis for Disease Diagnosis”, Springer, May 2019 (ISBN: 978-3-030-14135-6).
BOOK CHAPTERS:	
[1]	S. A. Vahora, N C Chauhan and Nilesh B. Prajapati, Moving Object Detection Using Incremental Statistical Mean Technique. N. Meghanathan et al. (Eds.): CCSIT 2012, Part II, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST), vol 85, pp. 204–210, 2012. (ISSN: 978-3-642-27307-0)
[2]	K. R. Jain, and N. C. Chauhan . An Automatic Segmentation Approach towards the Objectification of Cyst Diagnosis in Periapical Dental Radiograph. In Springer Book Series ‘Smart Innovations, Systems and Technologies’ Eds. S C Satapathy, and A Joshi, vol. 83, Information and Communication Technology for

	Intelligent Systems (ICTIS-2017) Volume1, Springer International Publishing, pages 164-172, August 2018. (ISSN: 2190-3018, ISBN: 978-3-31963672-6) https://doi.org/10.1007/978-3-319-63673-3_20
[3]	Sanghani, A., Bhatt, N., Chauhan, N.C. (2019). A Novel Hybrid Method for Time Series Forecasting Using Soft Computing Approach. In: Pandian, D., Fernando, X., Baig, Z., Shi, F. (eds) Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB). ISMAC 2018. Lecture Notes in Computational Vision and Biomechanics, vol 30. Springer, Cham. https://doi.org/10.1007/978-3-030-00665-5_107 (ISBN-10: 303000664, ISBN-13: 978-3030006648)
[4]	Saha, G., Chauhan, N.C. (2020). Week Ahead Time Series Prediction of Sea Surface Temperature Using Nonlinear Autoregressive Network with and Without Exogenous Inputs. In: Johri, P., Verma, J., Paul, S. (eds) Applications of Machine Learning. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-15-3357-0_16 (Print ISBN: 978-981-15-3356-3, Online ISBN: 978-981-15-3357-0)
[5]	Pandya, N.A., Chauhan, N. (2023). Survey Paper on Multi-view Object Detection: Challenges and Techniques. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Infrastructure and Computing. Lecture Notes in Networks and Systems, vol 520. Springer, Singapore. https://doi.org/10.1007/978-981-19-5331-6_1
[6]	Mehta, M.H., Chauhan, N.C. , Gokhale, A. (2023). A Dataset Preparation Framework for Education Data Mining. In: Dhavse, R., Kumar, V., Monteleone, S. (eds) Emerging Technology Trends in Electronics, Communication and Networking. Lecture Notes in Electrical Engineering, vol 952. Springer, Singapore. https://doi.org/10.1007/978-981-19-6737-5_23
INTERNATIONAL JOURNALS:	
[1]	N. C. Chauhan , Y. K. Roy, A. Kumar, M. V. Kartikeyan, and A. Mittal. SVM-PSO based modeling and optimization of microwave components. <i>FREQUENZ - Journal of RF-Engineering and Telecommunications</i> , vol. 62, pp 18-24, Jan/Feb 2008. doi:10.1515/freq.2008.62.1-2.18
[2]	N. C. Chauhan , M. V. Kartikeyan, and A. Mittal. Support vector driven genetic algorithm for the design of circular polarized microstrip antenna. <i>Journal of Infrared, Millimeter, and Terahertz Waves (Springer)</i> , Vol. 29, No. 6, pp 558-569, June 2008. https://doi.org/10.1007/s10762-008-9354-9
[3]	N. C. Chauhan , A. Mittal, D.Wagner, M. V. Kartikeyan, and M. K. Thumm. Design and optimization of nonlinear tapers using particle swarm optimization. <i>Journal of Infrared, Millimeter, and Terahertz Waves (Springer)</i> , Vol. 29, No. 8, pp 792-798, August 2008. https://doi.org/10.1007/s10762-008-9366-5
[4]	N. C. Chauhan , M. V. Kartikeyan, and A. Mittal. A review on the use of soft computing methods for design applications of microwave domain. <i>FREQUENZ - Journal of RF-Engineering and Telecommunications</i> , vol. 63, pp 24-31, Jan/Feb 2009. https://doi.org/10.1515/FREQ.2009.63.1-2.24

[5]	N. C. Chauhan , M. V. Kartikeyan, and A. Mittal. CAD of RF windows using multi-objective particle swarm optimization. <i>IEEE Transactions on Plasma Science</i> , Vol. 37, No. 6, pp 1104-1109, June 2009. doi: 10.1109/TPS.2009.2020589.
[6]	N. C. Chauhan , M. V. Kartikeyan, and A. Mittal. A modified particle swarm optimizer and its application to the design of microwave filters. <i>Journal of Infrared, Millimeter, and Terahertz Waves (Springer)</i> , vol. 30, pp 598-610, 2009. https://doi.org/10.1007/s10762-009-9474-x
[7]	R. M. Makwana, V. K. Thakar, and N. C. Chauhan . Extraction of Illumination Invariant Features using Fuzzy Threshold based Approach. <i>International Journal of Computer Applications (IJCA)</i> , Special Issue on Int. Conf. Intelligent Systems & Data Processing (ICISD-2011), pp. 25-31, 2011.
[8]	R. M. Makwana, V. K. Thakar, and N. C. Chauhan . Fuzzy measure based adaptive methods for illumination invariant face recognition. <i>International Journal of Computational Intelligence and Applications (IJCIA)</i> , vol. 10, No. 3, pp 313-333, 2011. https://doi.org/10.1142/S1469026811003124
[9]	R. Sheth, N. C. Chauhan , M. M. Goyani, and K. A. Mehta. Handwritten Character Recognition System using Chain code and Correlation Coefficient. <i>International Journal of Computer Applications</i> , Special Issue on International Conference on Recent Trends in Information Technology, March 2012.
[10]	S. Vahora, N. C. Chauhan , and N. Prajapati. A robust method for moving object detection using modified statistical mean method. <i>International Journal of Advanced Information Technology (IJAIT)</i> Vol. 2, No.1, February 2012.
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DECLARATION

I hereby declare that the entries in this form are true to the best of my knowledge and belief.

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