CURRICULUM VITAE

Dr. Preeti Bajaj,

Director, GHRCE, Nagpur

Dr. Preeti Bajaj is an Electronics Engineer Graduated in 1991, Post graduate in 1998 and awarded doctorate in Electronics Engineering in 2004. Having 28 years of experience, currently she is Director of G.H. Raisoni College of Engineering, Nagpur. She is also director of GHR Labs and GHR Technology Business Incubator Foundation (GHR TBI). She has also been instrumental to design and development of ITS systems in public and private sector like toll collection/toll audit /highway traffic management system and AITS by applying Soft/hybrid Computing, Intelligent Systems & Applications of Fuzzy logic in ITS. She is also engaged in research in Biomedical and AI. Her professional society affiliation includes Fellow- Institute of Engineers, Fellow IETE, Senior Member- IEEE, LM-ISTE, and LM-CSI. She is presently Secretary-IEEE India Council, Member MGA SAC committee Team R-10 and founder Chair of Nagpur Subsection. She is an Ex -Member-GC, National Board of Accreditations. She has chaired many sessions in international conferences in India & abroad. Seven students have been awarded Ph.D. under her supervision and five have submitted their Ph.D. thesis. She has authored & co-authored 150 plus reviewed Publications with citations 800 plus & h-index ratio 14 & i10-index ratio 22. She has coauthored three book chapters in an international publication. Dr. Bajaj holds several awards like Best Teacher award, “Bhaskar Woman’s Award” and “Faculty of Month”. She was on General Council of National Board of accreditation.

She has taught soft computing to the undergraduate and postgraduate students of computer science and Electronics Engineering. Her major contribution is in design and development of driver assistance systems like drivers fatigue detection system, driver’s action and emotion detection system, driver’s behavior modeling and applying hybrid fuzzy / genetic / PSO to various Intelligent Transportation Systems. She has also been instrumental to design and development of ITS systems in public and private sector on various areas of specialization like toll collection/toll audit system/highway traffic management system and advanced traveler Information systems.

She is founder General Chair of ICETET series of Seven IEEE Conferences. Under her leadership GHRCE has been awarded Autonomy, three cycles of NBA accreditation to all UG programmes, NAAC with A+ Grade, TEQIP World Bank project 1 and 2, NIRF ranking, ARIIA ranking. GHRCE received great milestones and still counting with her broad vision. Few flagship programs like GHR Connect, GHR Career Connect, Ignite, AI Summit, Smart City summit outreached to all corners of India. GHRCE received grants at central level viz: DST-NIDHI-TBI, AICTE-Magradarshan, UGC-Paramarsh, World Bank-TEQIP-I & II under her leadership.

She is also been recognized as resource person by National Board of Accreditation for creating awareness of Outcome Based Education and OBA and also is Ex-member of General Council of NBA. She has visited countries like Singapore, Hong Kong, UK, Japan, Malaysia, Mauritius, and USA. Her efforts have turned 208 projects into patents leading to transform a private Engineering institution into India's premier, Engineering and Research Institute in last 5 years.

She is very Active IEEE Volunteer for last 20 plus years, worked at regional, council, section level, subsection, branch level, above all counselor for regional and students' group for IEEE activities and taking them to wonderful world of innovations through IEEE.

Her passion is to connect bringing industry institutions and community at one place and brining need-based innovations through technology for students by students.

My detailed CV is as follows:

1.	**Name in Full**	:	Dr. Preeti Bajaj
2.	**Designation**	:	Director, G. H. Raisoni College of Engineering (last 10 years) Director, GHR Labs & Research Center Director, GHR Technology Business Incubator Foundation (GHR TBIF)
3.	**Date of Birth**	:	11th October 1970
4.	**Nationality**	:	Indian
5.	**Address for correspondence**	:	Dr. Preeti Bajaj Director, G. H. Raisoni College of Engineering, CRPF gate 3, Digdoh Hills, Hingna Road Nagpur, Maharashtra- 440016 (M) +91-9822220369 preetibajaj@ieee.org preetib123@yahoo.com
6.	**Academic Qualification**	:	Ph.D. (Electronics Engineering), MBA
7.	**Academic Experience**	:	26 years in the capacity of Lecturer, Assistant Professor & Professor together

8. Responsibilities Handled:

Administrative

- Autonomy of GHRCE
- Deemed University Project of GHRCE
- Setting up of University in Rajasthan, Jharkhand, IIIT Kota, Gujarat, MP, MS
- Permanent affiliation
- Industry Institute Interaction
- Set up forums, Parents meet, Signing MOUs
- Framing Rules Regulations and Ordinances for Autonomy & Deemed University.
- Handbook, Printed journal, workbook, ordinances
- Accreditation of postgraduate and undergraduate courses by NBA
- Reforms in Academic System like digital learning, Flexibility, beyond syllabus, open ended experiments, foreign collaborations, campus card
- World Bank (TEQIP-I) coordinator started with score of 5/10 last audit score was 9.7
- World bank project TEQIP-1.2 component.
- Promotion of professional Society activities IEEE, CSI, SMCS, IETE
- Designing SOP
- Setting up innovation cell/Patent cell/Entrepreneurship cell and incubation center
- Awareness and training of faculties on outcome-based education
- Implemented Credit Transfer System
- Expertise in CBCS
- Implemented 6 months internship embedded in Curriculum

Research

- Approved and Research Center for PhD and higher Learning for Nine doctoral programs
- Streamlined R & D policies and designing norms
- Foundation General Chair- ICETET series of International Conferences under **SMC, IEEE** at GHRCE (ICETET-08, ICETET-09, ICETET-10, ICETET-11, ICETET-12, ICETET-13, ICETET-15, ICETET- ISA 2018, ICETET-2019)
- Editor –in-chief International Journal of Engineering Trends in Engineering and Technology (IJETET)
- Design Development of Research Policy and Incentive plan
- Design, development and execution of Research methodology Course for undergraduate, Postgraduate and doctoral Students
- Developed Vision Plan for GHRCE for TEQIP-2 wherein Institute ranked Third amongst Private colleges in India
- Reforms in Research Norms, incentives, policy, Ph.D. norms etc.

Industrial Experience:

- Offered consultancy to **National Highways Authority of India** for designing and proposing various Intelligent Transportation projects on National Highways
- Appointed as **expert views** on the bids received for Design, Supply, Installation and Maintenance of Independent Toll Audit System on various sections of National highways.
- Worked as only Technical Member for Pilot plan of Government of India for integrating 200 toll plazas on National highways for Toll collection using smart cards.
- Given Consultancy for E-Governance using smart cards for Campus automation to Government polytechnic, Nagpur, Bandera Engineering College
- Given consultancy to TVS Cherry ltd- Multinational Company for integrating smart card reader of TVS cherry with Smart cards from VCT, USA
- Designing MIS software for autonomous Institute
- Established Incubation Center
- Established IPR cell
- Introduced six months mandatory internship for 1500 students from 2014
- Strong connect with industry

9. Publications:

Chapter Contribution:

SN	Year	Name of Book	Name of Publisher	Book ISSN No.	Title of chapter
1.	2011	New Trends and Developments in Automotive System Engineering	INTECH Publisher	ISBN: 978-953-307-517-4; **DOI:** 10.5772/16198	Design of an Embedded Controller for some applications of an Automotive
2.	2011	New Trends and Developments in Automotive System Engineering	INTECH Publisher	ISBN: 978-953-307-517-4; **DOI:** 10.5772/16197	Arbitration Schemes for Multiprocessor Shared Bus

3.	2012	New Advances in Vehicular Technology and Automotive Engineering	INTECH Publisher	ISBN: 978-953-51-0698-2; **DOI:** 10.5772/45792	Automotive Networks Based Intra-Vehicular communication applications

Research Article

"Research on Driver's Fatigue Detection" published in Special issue on Human Centered Transportation Systems, IEEE SMCS, June 2010,

National Conferences: 6
International Conferences: 100 plus
National Journals: 40 Plus
International Journals: 50 Plus

Conferences Organized:

1. General Chair, 1st International Conference on Emerging Trends in Engineering & Technology (ICETET-08)
2. General Chair, 2nd International Conference on Emerging Trends in Engineering & Technology (ICETET-09)
3. General Chair, 3rd International Conference on Emerging Trends in Engineering & Technology (ICETET-10)
4. General Chair, 4th International Conference on Emerging Trends in Engineering & Technology (ICETET-11)
5. General Chair, 5th International Conference on Emerging Trends in Engineering & Technology (ICETET-12)
6. General Chair, 6th International Conference on Emerging Trends in Engineering & Technology (ICETET-13)
7. General Chair, 7th International Conference on Emerging Trends in Engineering & Technology (ICETET-15)
8. General Chair, 1st International Conference on Information Security & Privacy
9. General Chair, 1st International Conference on Advances in Mechanical Engineering
10. Honorary Chair, International Conference on Emerging Trends in Engineering & Technology on Information Security and Analytics (ICETET- ISA 2018)
11. Honorary Chair, IEEE PES cosponsored International Conference on Smart Electric Drives and Power System (ICSEDPS-2018)
12. Honorary Chair, Springer: International conference on Smart Technologies for Energy, Environment & Sustainable Development.-18 (ICSTEESD-18)
13. General Chair, National Conference on "VLSI Design and Embedded Systems" 2012
14. General Chair, National Conference on "Green Power & Energy: A step Towards Better Future" 2012
15. General Chair, National Conference on "Innovative Research Trends in Computer Science Engineering & Technology" 2012
16. General Chair, National Conference on "Advanced Data Management & Multimedia Computing" 2012
17. General Chair, National Conference on "Emerging Trends in Civil Engineering" 2012
18. General Chair, National Conference on "Recent Trends in Information, Telecommunication and Computing" 2012
19. General Chair, National Conference on "Improving Productivity and Quality of Manufacturing Systems" 2012
20. General Chair, 1st National Conference on "Advanced Research Trends in Sciences" NCARTS-13
21. General Chair, National Conference on "Contemporary Issues Relating to Research Methodology in Current Scenario" 2013
22. General Chair, National Conference on "Recent Trends in Information Security" 2013
23. General Chair, National Conference on "VLSI Design, Embedded System & Signal Processing" 2013
24. General Chair, National Conference on "Green Power And Energy: A Step Towards Better Future" 2013
25. General Chair, National Conference on "Innovative Research Trends in Computer Science Engineering & Technology" 2013
26. General Chair, National Conference on "Human Computer Interaction" 2013
27. General Chair, National Conference on "Emerging Trends in Civil Engineering" 2013
28. General Chair, National Conference on "Recent Trend in Information, Telecommunication and Computing" 2013
29. General Chair, National Conference on "Advances in Renewable Engineering" 2013

30. General Chair, National Conference on "Recent Trends in Business & Technology Management" 2014
31. General Chair, National Conference on "Recent Trends in Information Security" 2014
32. General Chair, 2nd National Conference on "Advanced Research Trends in Sciences" NCARTS-14
33. General Chair, 3rd National Conference on "VLSI Design, Embedded Systems & Signal Processing" 2014
34. General Chair, 3rd National Conference on "Green Power and Energy – A Step Towards Better Future" 2014
35. General Chair, 3rd National Conference on "Innovative Research Trends in Computer Science Engg. & Tech" 2014
36. General Chair, 3rd National Conference on "Emerging Trends in Civil Engineering" 2014
37. General Chair, 3rd National Conference on "Advances in Mechanical Engineering" 2014
38. General Chair, 3rd National Conference on "Recent Trends In Information Technology" 2014
39. General Chair, 3rd National Conference on "Recent Trends in Information, Telecommunication & Computing" 2014
40. General Chair, 3rd National Conference on "Advanced Research Trends in Sciences" NCARTS-15
41. General Chair, 3rd National Conference on "Business and Economics" 2015
42. General Chair, 3rd National Conference on "Recent trends in information security" 2015
43. General Chair, 4th National Conference on "Advanced Research Trends in Sciences" NCARTS-16
44. General Chair, 4th National Conference on "Futuristic Trends in Business and Computer Application Entrepreneurship" 2016
45. General Chair, 4th National Conference on "Green Power and Energy –A Step Towards Better Future" 2016
46. General Chair, 4th National Conference on "Advanced Recent Trends In Civil Engineering" 2016

10. Technical Workshops Organized/hosted: 10

International Conferences Attended: 15

Technical STTP/Workshops Attended: 15

11. Management capacity Training attended: 15 (on various issues like conflict management, Time management, Emotional Intelligence)

12. Projects undertaken

UG Projects Guided: **30**

M. Tech. Projects Guided: **30**

13. Ph.D. Students Registered

Year of Registration	Name of Subjects	Title of Thesis	Status
2007	Mr. Dinesh Padole	Optimum Prototype Design of Embedded Controller for Some Applications in Intelligent Transportation System	Awarded on July 2011
2007	Mr. Milind Khanapurkar	Vehicular Communication: A Design for Some Intra-Vehicular Communication Applications with VLSI Tools	Awarded on July 2011
2006	Mrs. Sharda Devi	Design & Development of Some Methodology for Driver Monitoring System with Non-Intrusive Approach	Awarded on March 2012
2006	Mrs. P. M. Daigavane	Some Strategies for Analysis of Traffic Flow on Highways With Computer Vision Algorithms Soft Computing Tools	Awarded 2013
2008	Ms. S. D. Giripunje	A Design & Implementation of Simulation Facial Action Tracking & Emotion Recognition Based on Non-Intrusive Parameters	Awarded 2013
2008	Mr. Prashant Sharma	A Design Approach to Hybrid Intelligent System with Type Z Fuzzy Logic for Some Applications of Intelligent Transportation System	Awarded 2013
2011	Ms. R. W. Jastukar	Design and development of Sigma Delta Modulator with power optimization for Biomedical Applications	Submitted

2012	Ms. Komal Mehta	Performance Improvement of Vehicular Ad-Hoc Network (VANET) with nature inspired Biological Computing algorithms	Awarded
2012	Ms. Minal Deshpande	Development of Some Strategies for traffic Flow Prediction using Rough Set and Soft Computing Tools	Submitted
2014	Ms. Sonali Joshi	Design and Development of Sensors for Ayurveda	Submitted
2014	Mr. Sanjay Wankhede	Design and Development of Behavior and Risk Model for Drivability under Intelligent Transportation System	Submitted
2014	Mr. Sujesh Ghodmare	Sustainable Transportation System with ITS; A Framework for Assessment and Implementation for Emerging Metropolitan City of Nagpur	Submitted
2016	Mr. Rahul Agrawal	Design and Development of Alternative Communication System for Physically Disabled Person Based on Intrusive / Non-intrusive Models	Ongoing

14. PG Projects Guided

2005-06	Rashmi Parsai	Intelligent Monitoring System For Driver's Alertness
2005-06	Tejashwari Bisen	Its:CANn –A Design Approach
2006-07	Prashant Sharma	Vehicle Classification Algorithm for Single Loop Detection Using Soft Computing (Genetic Neural Approach)
2006-07	Vishal Rathi	Hybrid Controller Design
2007-08	N.G.Narole	A Neuro-Genetic System Design for Monitoring Drivers Fatigue
2008-09	K.M.Dhamat	Implementation of Lin to Lin Communication In Master Slave Configuration
2008-09	Parag Puranik	Fuzzy Based Color Image Segmentation Using Comprehensive Learning Particle Swarm Optimization
2009-10	Jitendra Chaurasia	A Design Approach to Hybrid Algorithm For Traffic Sign Better & Recognition
2009-10	S.P.Jawanjal	Traffic Flow Forecasting With Soft Computing Tools
2010-11	Parag Hirulkar	Traffic Signal Timing Optimization: A Design Approach With PSO
2010-11	Rushikesh Bankar	Design and Development of Driver Vigilance Monitoring System
2011-12	Deepika Bhatia	An Ontology Based Personalization for Mobile Web Search
2011-12	Gazalanaaz Qureshi	A Hybrid Particle Swarm Optimization With Genetic Operators for Vehicle Routing Problem
2011-12	Mangala Belkhede	FLC Based Efficient Implementation on Android with Enhanced Security for Online Transaction
2011-12	Sonali Navghare	Design And Development of Biologically Inspired Computing System: An Application to Facial Emotion Recognition
2012-13	Achamma Varghese	Design And Development of Traffic Flow Prediction System And Optimization of Green Signaling Using Soft Computing Tool
2012-13	Nishant Panday	Design And Implementation of Real Time Facial Emotion Recognition System
2013-14	Pratik Gujar	Bio-Inspired Hybrid Routing Protocol for Vehicular Ad Hoc Networks (Vanets).
2013-14	Rashmi Raut	Bio-Inspired Routing Mechanism for Distant Vehicles In Vanet
2013-14	Rutuja Kamble	Bio-Inspired Self Adaptive Broadcasting Algorithm for Vanet
2014-15	Apoorva Mishra	Development of Monitoring Module For Analyzing Social Behaviour of

		Driver For Preventing Accidents.
2014-15	Vivek Shegaonkar	A Normal Approach of Merging DNA Fragments Using Bio-Inspired Computing Algorithm.
2015-16	Anushri Agrawal	Context-Awareness Based Intelligent Driver Behaviour Detection.
2015-16	Gayatree Lanjewar	Classification of Road Traffic at Cross Sections Using Image Processing Tools.
2015-16	Jidnyasa Walke	Development Of Model for Detecting The Age Group Of Drivers by Using Soft Computing Tools.
2015-16	Rohit Jesutkar	Analysis of Parent Feedback in an Educational Institute Using Mining Features and Opinion Words.
2016-17	Ashutosh Wadhai	Design and Development of Traffic Simulator.
2016-17	Shreya Gole	Prediction of Dropout Students From Engineering Education: Design And Development of A Model with Educational Data Mining (EDM).
2016-17	Sonam Kurda	Design And Development of IoT Based General Purpose Brain Computer Interface System.
2017-18	Anushree Chitriv	Analysis of Student Feedback by Using Data Mining Techniques.
2017-18	Shrutika Chaware	Design and Development of Eye- Dialect System for Physically Disabled

15. UG Projects Guided

1998-19	Fuzzy control of Headlight Intensity for optical Illumination
2000-01	Smart Route guidance and navigation for Intelligent Transportation
2000-01	Smart Campus with Smart Cards
2001-02	Implementation of Automation of Campus using Smart Cards
2001-02	Smart Pre trip plan assistance system for Vehicle health monitoring
2001-02	Intelligent Vehicle Highway systems for Intelligent Transportation
2002-03	Design of adaptive Neural controller with pre trip plan assistance system using vehicle health monitoring
2002-03	VHDL modeling of 8051 micro-controller as a fuzzy logic controller
2002-03	GA based optimum path finding and Taxi Dispatch System
2002-03	Green Link determination using Fuzzy Optimization
2002-03	Pre-trip plan assistance using Hybrid Intelligent system (Genetic fuzzy)
2003-04	Data Base Management in Geographic Information System
2003-04	Classification of Images using Digital Image Processing Technique
2003-04	Adaptive Neuro Fuzzy inference System
2003-04	Channel Assignments using Genetics
2003-04	Fuzzy Logic Implementation in VHDL & 8051
2004-05	An Active Vision System for Real Time Traffic Sign Recognition
2004-05	Implementation of GPS using Hierarchical clustering
2004-05	Modeling of Electromagnetic processes through Soft Computing
2004-05	Search & Rescue Robot
2004-05	Neural Controller using VHDL
2005-06	Intelligent Automated Guided Vehicle System
2005-06	Web based academic Monitoring with Smart Card
2005-06	Digital Surveillance Machine
2006-07	Real Time Driver Monitoring System (Vision Based Approach for yawning)
2006-07	Implementation of Vehicular Ad-hoc Network (Simulation)
2006-07	Vectorization of Roster Image Captured by Remote Sensing Satellite (Sponsored by RRSC)

2007-08	Implementing next generation automotive communications
2007-08	Toll tax collection
2007-08	Intelligent system using genetic algorithm

16. Chaired session in Conferences

- International conferences in SICE99 Moriokka, Japan
- Chairperson for International conferences in SICE2000 Izzuika, Japan
- Session Chair 'Zeal 2001' for Neural Networks Session, at BDCOE, Wardha.
- Session Chair 'Shanshodhan' for IEEE Branch at PCE on 9th April 2004.
- Session Chair for National Conference 'Axis 2004' for IEEE Branch at VNIT in 2004
- Chairperson for 2 sessions on Hybrid Intelligent systems for International Conference KES 2004 at Wellington NewZeland.
- Member of Jury for National level project competition Mesh 2004 at BDCOE, Sewagram.
- Chaired Session in ICETET-09 and ICETET-10, ICETET-11, ICETET-12, ICETET-13 in Human Centered Transportation System
- Program Co-chair ICVES 2014 Hyderabad
- Organized Session on HISA09 Cambridge UK

17. International recognition

As Reviewer in the Conferences

- Reviewer for IEEE Conference for Systemic, Cybernetics and informatics conference SCI2001- SCI 2001, 2002, 2003, 2004, 05,06 Orlando, Florida,
- Reviewer for International conference KES 04, KES 05 & KES 06 for number of technical research papers.
- Reviewer for IEEE Conference on Intelligent Transportation System ITSC-04, ITSC05, ITSC-06, ITSC 07
- Reviewer for UKSIM 2009
- Reviewer for international conference ICETET-08, 09, 10, 11 India

As Reviewer in the Journals

- Reviewer of International journals IJPRAI- International journal of pattern recognition and Artificial Intelligence
- Reviewer of International journals IDT- Intelligent decision technologies
- Reviewer of International journals JAIS
- Reviewer of International journals IJSSST
- Regular Reviewer for IEEE transaction on Systems, Man and Cybernetics, Part A
- Reviewer for **Scientific Journals International**
- Regular reviewer For IEEE Transactions on IEEE VT-Vehicular Technology
- Guest Editor of International Journal of Simulation, Systems, Science & Technology, UK

18. Member of Technical Committee

- Program Committee member for KES 2006, U.K.
- Member of conference committee of the multi conference IMECS 2007 as conference co-chair.
- Member of International Advisory Board of NaBIC'09 -2009 World Congress on Nature & Biologically Inspired Computing, to be held during 9-11 Dec'09

- Program Committee Member or potential member for the 5th IEEE Vehicle Power and Propulsion Conference 2009 (VPPC'09 Regular Track: Modeling, Simulation, Dynamics, and Control)
- Program Committee Member- The International Conference on Soft Computing and Pattern Recognition (SOCPAR 2009)
- Member, Technical program committee for CSSim2009 (Brno International Conference on Computational Intelligence, Modeling and Simulation 2009).
- Technical program committee for CICSyN2009 (1st Int Conference on Computational Intelligence, Communication Systems and Networks).
- Program Committee Member or potential member for The 5th IEEE Vehicle Power and Propulsion Conference 2009 (VPPC'09 Regular Track: Modeling, Simulation, Dynamics, and Control)
- INC09- Symposium on Innovations in Natural Computing
- Member of the international Committee on AICIT"s international conference series UK
- Member, Technical Program Committee for UKSim 2009 (UKSim 11th International Conference on Computer Modeling and Simulation) Cambridge
- Program committee member 10th international conference on Knowledge-based and Intelligent Engineering Systems, Bourremath, UK (9-11 Oct)
- PC Member for the track "Dependable Systems and Autonomic computing/Networking" in AINA 2010 (IEEE 24th International Conference on Advanced Information Networking and Applications)
- Program committee Member for 7th international conf. on CIPR2010.
- Program committee Member Nature and Biologically Inspired Computing (NaBIC), 2010
- Program committee Member Intelligent Transportation Systems (ITSC), 2010
- Program committee Member TCUMT 2010
- Program committee Member for S2ES2010
- PC Chair ISA2010, 4th International Conference on Information Security & Assurance
- ISMS 2010, 1st International Conference on Intelligent Systems, modeling & Simulation
- IEEE Intelligent Vehicles Symposium (IV '10), in San Diego, Canada
- Advisory member for IEEE ITS conference ICVES, Pune India
- Program chair WICT 2011
- 11th International Conference On Hybrid Intelligent Systems (HIS2011)
- Member of Technical Programme Committee for two days International Conference on "Signal Processing & Integrated Networks (SPIN 2015)" being organized by Amity School of Engineering and Technology (ASET) at Amity University Campus, Sector-125, Noida, India on 19-20 Feb 2015
- Steering Committee Member for the Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015), August 10-13, 2015, Kochi, India - http://icacci-conference.org/web/.
- IPC member of Third International Conference on Control, Decision and Information Technologies (CoDIT'16) to be held in Malta for April 6-8, 2016.
- Reviewer for National Conference at KDK College of Engineering, Nagpur

19. Awards/ Honors

- Received international Travel Grant for attending International Conference at Moriokka, Japan from department Of Science and Technology, Government of India.
- Received international Travel Grant for attending International Conference at Oxford University, United Kingdom from All India Council for Technical Education, Ministry of Human Resource and Development.
- Received Best Teacher award of the Institute for the academic session 2001-2002

- Received international Travel Grant for attending International Conference at Washington D.C., USA from Department of Science and Technology, Ministry of Science and Technology, New Delhi
- ISTE-AICTE Sponsorship for 1 Week training course on DIP & real Time Applications.
- Proud Recipient of **"Bhaskar Woman's Award"** for year 2010.
- Recipient of **"Faculty of Month"** for September 2011, by Teacher Academy, Hyderabad
- Advisor of Jhulelal Institute of technology for STTP on Digital identity and Security from 22nd April-26th April 2013
- Member of selection committee of Sant Gadgebaba Amravti University
- Member of finance committee of WOSA
- Member of **Advisory Board of Saraswati College of Engineering, Mumbai**

20. Keynotes Delivered

- Guest Speaker for Utsaah 2008, Utsaah 2009, Utsaah 2010 Young students associations on Motivation
- Delivered keynote on Emerging Trends in Engineering & Technology at National Conference
- Delivered keynote on at IETE Local Center on Intelligent Transportation System
- Delivered lecture on Evolution of Research at G H Raisoni Institute of Engineering & Technology for Women, Nagpur, in Nov 2011
- Delivered lecture on Evolution of Research G H Raisoni Academy of Engineering & Technology, Nagpur, in Nov 2011
- Delivered keynote on Best practices on NAAC
- Delivered Keynote in Faculty development program on Research grants funding
- Delivered Keynote at national conference of IEEE at KITS Ramtake, Nagpur, Maharashtra
- Chief Guest at 2nd National Conference on Information and Communication Technology, organized by NYSS. College Of Engineering & Research.23-24 Dec 2011
- Delivered Keynote on Electronic Toll Collection in national Seminar organized under TIFac core in Siddhartha Engineering College, Vijayawada on 3rd Jan 2012,
- Panalist in National Engineering curriculum design workshop by FICCI, New Delhi
- Delivered Keynote on Innovations and IPR at Pune
- Delivered Session on How to write good Technical paper during AISC-15 at Kochi Kerla
- Conducted Session on Innovation and Research at SB Jain College of Technology on 15th Jan 2016
- Conducted a session on How to write Good Technical Papers in YCCE Nagpur
- Conducted a session on Innovation and Research at RCET, Chnadrapur on 3rd Feb 2016
- Panelist at NIT during WaD in 2015
- Keynote at AISWYC 2016 at LMNIT Jaipur 2017

21. Training delivered as master Trainer on outcome-based Education and Outcome based Accreditation

- Suresh Dyan Vihar University Jaipur University
- PES Institute of Technology
- Usmania University
- G H Raisoni College of Engineering Nagpur Oct 2013
- G H Raisoni College of Engineering Nagpur
- G H Raisoni College of Engineering Nagpur March 2014
- G H Raisoni College of Engineering Nagpur May 2014
- Devi Ahilya Vishva Vidyalaya

- Veer Jijamata Technical Institute 3rd April 2014
- B. D. College of Engineering on 17th Jan 2016

22. Membership of Professional Bodies:

1. LM- ISTE
2. Fellow -Institution of Engineers
3. LM-CSI
4. Fellow IETE
5. Senior Member-IEEE, Intelligent transportation, SMCS

23. IEEE Engagement:

Currently: Secretary India Council, Subsection chair (proposed), Member CGAA EAB standing committee, Member India Strategic Initiative 2017 Committee appointed by President IEEE
BoG HKN 2019-21
Vice Chair Awards - IC 2019
Secretary IEEE India Council 2017, 2018
Chair - IEEE Nagpur Subsection 2017, 2018

Activities | Board:
Standing Committee on Global Accreditation Activities under EAB of IEEE 2016, 2017

Activities | MGA:
MGA: Member IEEE India Strategic Initiatives –Task committee (Ad-hoc) 2015
Present member of SAC 2017, 2018

Activities | Regions:
Subcommittee Lead Students Internship & Skill Connect (Adhoc committee of R-10 (Did pilot for 150 plus students) 2016

Activities | Societies:
SMCS Society activities- Co chair HCTS (Human Centered Transportation System 2009-2014
HMS representative to the Conferences and Meetings Committee of SMCS for 2009-2010,
Represented her TC at Miami coordinated Feb 2011
General Chairs and organized conferences under Technical sponsorship of SMCS ICETET-09, ICETET-10, ICETET-11, ICETET-12, ICETET-13, ICETET15

Activities | IEEE India Council:
Currently Secretary, India Council, Region 10 2017, 2018
Vice chair student Activities IEEE India Council 2013, 2014, 2015, and 2016
Organized AISC (All India Student Congress for 2013, 2014, with more than 300 students from 100 plus branches,
Organized AISYC (All India Student and Young professional Congress for 2015
Organized AISYWC -2016 (All India Student and Young professional and Women in Engineering Congress for 2016
Organized MV Chavhan Paper contest at PAN India 2013, 2014, 2015, 2016
Member of nomination committee of elections for secretary of India council.2014

Activities | Conferences:
Served on IEEE SMCS Technically sponsored/cosponsored conferences as General Chair ICETET (2008, 2009, 2010, 2011, 2012, and 2013), collaborated with SMC chapters at Hungary, UK, Japan, Region 8, Japan council and many others for SMCS activities, and organized special sessions on Human Centered transportation system under her TC at many conferences. Few of them includes Annual Conference SMC 2009, SMC2010, SMC2011, SMC2012, SMC2013 and SMC 2014, ICETET- 09, ICETET-10, ICETET 11, ICETET-12, ICETET-13, ICETET-15, IECTET-ISA-2018
Invited as Track chair for Automation and Control at 16th IEEE INDICON 2019, IEEE Gujrat Section

Activities | Chapters:
Chair, 2009-2011 SMC chapter Chair IEEE Bombay Section
supported many conferences under Technical Co-sponsorship of SMC like CICN 2010, CICN 2011, NESP 2010, WICT 2011
MIR Workshop at MIT Pune by Ajith Abraham

Activities | Subsection:
Founder Chair- Nagpur Subsection

Activities | Student Branches:
Student Branch: Counselor 2004-2006 GH Raisoni College of Engineering Nagpur All five branches of Nagpur region mentored by and run by GHRCE. Mentor for Asia largest IEEE student Branch with 3000 plus members

She is very Active IEEE Volunteer for last 18 plus, worked regional, council, section level, subsection, branch level, above all counselor for regional and students' group for IEEE activities and taking them to wonderful world of innovations through IEEE.
Her passion is to connect bringing industry institutions and community at one place and brining need-based innovations through technology for students by students.

24. Member of International Advisory Board

- NaBIC'09 -2009 World Congress on Nature & Biologically Inspired Computing held during 9-11 Dec '09
- ICWET-2010
- Advisory member for IEEE ITS conference ICVES, Pune India

25. Member on Governing Body

- BOG member of GHRCE, Nagpur
- BOG Member of GHRCEM, Pune
- Ex-BOG Member of Vocational Board of Government of Maharashtra
- Ex-Governing Council Member of National Board of Accreditation
- Member of BOM, GHR University Saikheda, Chindwada, MP, India
- Executive committee of FICCI KNFH, western Hub
- Member – FICCI Road Safety Committee

26. Ph.D. Examiner

- For Devi Ahilya Vishvavidyalaya for Mrs. Raksha upadhyay
- For shikha o anusandhan university orrisa
- Chairman expert committee for pre submission seminar of North marathwada university

- RRC Committee member at Gondwana University from 2015
- RRC Committee member at RTMNU from 2015
- Special Task Committee RTMNU 2015-2017

27. References

Dr. U. B. Desai
Director
IIT Hyderabad, India
Email: ubdesai@iith.ac.in

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29. Scopus: https://www.scopus.com/authid/detail.uri?authorId=56498685200

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G.H. Raisoni College of Engineering, Nagpur,
Nagpur, India

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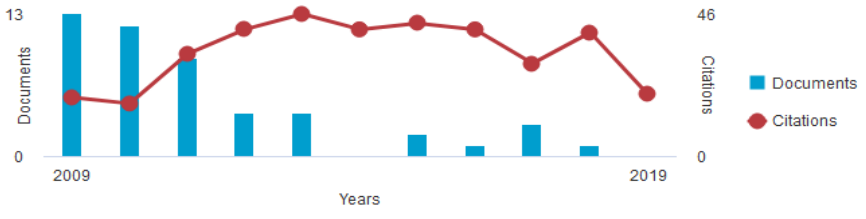

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Human perception-based color image segmentation using comprehensive learning particle swarm optimization P Puranik, P Bajaj, A Abraham, P Palsodkar, A Deshmukh 2009 Second International Conference on Emerging Trends in Engineering …	68	2009

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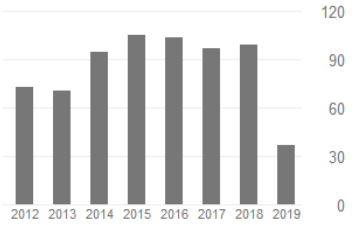

31. ORCID: http://orcid.org/0000-0002-7759-8026

Publication Details:

SN	Publication Type	Authors	Title	Publication Details	Year	WOS	Scopus	Google Scholar	Citations WOS (45)	Citations Scopus (333)	Citation Google Scholar (728)
1	Book	Bajaj, Preeti; Khanapurkar Milind	Automotive Networks Based Intra-Vehicular communication applications	New Advances in Vehicular Technology and Automotive Engineering; Intech Publisher; 2012, ISBN: 978-953-51-0698-2; DOI: 10.5772/45792	2012			Y			4
2	Book	Bajaj, Preeti; Padole, Dinesh	Arbitration Schemes for Multiprocessor Shared Bus	New Trends and Developments in Automotive System Engineering, Intech Publisher; 2011, ISBN: 978-953-307-517-4; DOI: 10.5772/16197	2011			Y			3
3	Book	Bajaj, Preeti; Padole, Dinesh	Design of an Embedded Controller for some applications of an Automotive	New Trends and Developments in Automotive System Engineering, Intech Publisher; 2011, ISBN: 978-953-307-517-4; DOI: 10.5772/16198	2011	Y-C		Y			1
4	IC	Sujesh D.Ghodmare, Dr. Preeti Bajaj, Dr.B. V. Khode	Comparative analysis of BRTS and MRTS - an approach required for selection of rapid transit system	Proceeding of International Conference on Smart Technologies for Energy, Environmental & Sustainable Development, GHRCE, Nagpur, July 28th-29th 2018	2018						
5	IC	Jasudkar, R., & Bajaj, P. (2015)	Extraction of Features and Opinion Words for Analysis of Parent Feedback in an Educational Institute using LRT Model	20th Jubilee IEEE International Conference on Intelligent Engineering Systems 2016	2016						
6	IC	Raut,R., Bajaj,P., Malik,L., Mehta, K.	Routing in Vehicular Ad Hoc Network using Bio Inspired Computing	International Conference on Computation of Power, Energy Information and Communication, IEEE 2014	2014						
7	IC	Kurumbanshi, Suresh, Avichal Kapur, and Preeti Bajaj.	Comparative Analysis for reduction of energy using various Routing Protocol in Mobile Adhoc Network;	4th International Conference on Advancement in Electronics and Power Engineering (ICAEPE 2013) Singapore	2013			Y			
8	IC	Okazaki, T., Murai, K., & Bajaj, P.;	Message from the IEEE SMCS Technical Committee	Human Centered Transportation Systems (pp,xv) 2013	2013			Y			
9	IC	Bajaj P Murai K	Welcome from ICETET 2013 general chairs	International Conference on Emerging Trends in Engineering and Technology, ICETET (2013)	2013						
10	IC	Bajaj P Deshmukh A	Message from chairs, bombay section chapter of IEEE SMC	International Conference on Emerging Trends in Engineering and Technology, ICETET (2012)	2012					0	

11	IC	Bajaj P Murai K Fujita T Kobashi S Jaju S Deshmukh A Joshi K Dorle S	Message from the organizing committee	International Conference on Emerging Trends in Engineering and Technology, ICETET (2012)	2012						
12	IC	Bajaj P Shiotani S Abraham A	Welcome from ICETET 2012 General Chairs	International Conference on Emerging Trends in Engineering and Technology, ICETET (2012)	2012						
13	IC	Daigavane P Daigavane M Bajaj P	Vehicle detection and neural network application for vehicle classification	Proceedings - 2011 International Conference on Computational Intelligence and Communication Systems, CICN 2011	2011						
14	IC	Abraham A Agrawal D Abraham S Corchado E Bajaj P	Welcome message	Proceedings of the 2011 World Congress on Information and Communication Technologies, WICT 2011 (2011)	2011					0	
15	IC	Daigavane, P. M., Bajaj, P. R., & Daigavane, M. B. (2010).	A Comparative Study of Different Techniques for Motion Estimation Using Block Matching Algorithm	Proceedings of 2010 The 3rd International Conference on Power Electronics and Intelligent Transportation System (Volume 3),	2010			Y			0
16	IC	Ms. S. P. Jawanjal Dr. P.R. Bajaj	Design approach to traffic flow forcasting with soft computing tools	International Conference on Emerging Trends Engineering and Technology ICETET 2010 19-21 Novemeber2010, BITS,	2010						
17	IC	Bajaj P	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010: Editorial	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010 (2010)	2010					0	
18	IC	Bajaj, P., Narole, N., & Devi, M. S.	Research on Driver's Fatigue Detection	IEEE eNews SMC, 31(pg1-9)	2010			Y			9
19	IC	Bajaj P Abraham A	Welcome message from the ICETET 2010 general chairs	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010 (2010)	2010						
20	IC	Sanjay S.Wankhede, Anushri Agrawal, Gayatri Lanjewar, Preeti Bajaj, Dinesh Padole	Approaches to Design Zigzag Drive Detection Model Using Image Processing	ICCCE - 2019	2019						

21	IC	Mehta (Bhagat), Komal; Bajaj, P. R.; Malik, L. G.	Fuzzy Bacterial Foraging Optimization Zone Based Routing (FBFOZBR) protocol for VANET	IEEE International Conference on ICT Business Industry, and Government (ICTBIG 2016) 18-19 November 2016 SAIT Indore Pg1-10,	2016	Y	Y	Y	0	2	1
22	IC	Deshpande M,Bajaj P	Performance analysis of support vector machine for traffic flow prediction	Proceedings - International Conference on Global Trends Signal ProcessingInformation Computing and Communication ICGTSPICC 2016	2016		Y	Y		2	4
23	IC	Bajaj, P., Murai, K., Fujita, T., Joshi, K., Dorle, S.;	Message from the organizing committee	International Conference on Emerging Trends Engineering and TechnologyICETET2013	2012		Y-C	Y		0	
24	IC	Chandankhede, P. H., Puranik, P. V., & Bajaj, P. R.	Soft computing tool approach for texture classification using Discrete Cosine Transform	Electronics Computer Technology (ICECT) 2011 3rd International Conference on (Vol. 4Pp296-299) IEEE,	2011		Y	Y		1	6
25	IC	Bajaj P Abraham A	Welcome from ICETET 2011 general chairs	International Conference on Emerging Trends in Engineering and Technology, ICETET (2011)	2011		Y			0	
26	IC	Giripunje, S., Bajaj, P., & Abraham, A. (2009, May).	Emotion recognition system using connectionist models	Proc Int Conf Cog Neural Syst (pp1-2),	2009		Y-C	Y			2
27	IC	Bajaj P., Abraham A.	Welcome from ICETET -09 general chairs	2009 2nd International Conference on Emerging Trends in Engineering and Technology, ICETET 2009	2009		Y			0	
28	IC	Dr. Preeti R Bajaj	Welcome message from the general chair	Proceedings - 1st International Conference on Emerging Trends in Engineering and Technology, ICETET 2008	2008		Y			0	
29	IC	Wei, Y., Bajaj, P., Scheldt, R., Patton, J.	Visual error augmentation for enhancing motor learning and rehabilitative relearning	9th International Conference on Rehabilitation Robotics 2005 ICORR 2005, 505 - 510	2005		Y-C			69	
30	IC	Choudhari, M. V., Devi, M. S., & Bajaj, P.	Face and facial feature detection	Proceedings of the International Conference & Workshop on Emerging Trends Technology(pp, 686-689), ACM,	2011		Y	Y		1	1

31	IC	Mishra, Apoorva; Bajaj, Preeti	Driver's Behaviour Monitoring on Urban Roads of a Tier 2 City in India	International Conference on Emerging Trends in Engineering and Technology, ICETET, vol. 2016-March (2016)	2016	Y	Y	Y	0	0	0
32	IC	Deshpande, Minal; Bajaj, Preeti R.	Short Term Traffic Flow Prediction Based on Neuro-fuzzy Hybrid Sytem	Proceedings of 2016 International Conference on ICT in Business, Industry, and Government, ICTBIG 2016 (2017)	2016	Y	Y	Y	0	4	3
33	IC	Kamble, Shailesh D.; Thakur, Nileshsingh V.; Malik, Latesh G.; Bajaj, Preeti R.	Color video compression based on fractal coding using quadtree weighted finite automata	2nd International Conference on Information Systems Design and Intelligent Applications (INDIA) 2015, Volume 2, Advances in Intelligent Systems and Computing, 649-658, 2015	2015	Y	Y	Y	6	2	8
34	IC	Varghese, Achamma; Bajaj, Preeti; Malik, Latesh	Design of adaptive traffic flow control system with soft computing tools for green signaling	2013 INTERNATIONAL CONFERENCE ON HUMAN COMPUTER INTERACTIONS (ICHCI)	2013	Y	Y	Y	1	0	0
35	IC	Agrawal, Urvashi; Giripunje, Shubhangi; Bajaj, Preeti	Emotion and Gesture Recognition with Soft Computing Tool for Drivers Assistance System in Human Centered Transportation	2013 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, and CYBERNETICS (SMC 2013) APR 03-052013Pg 913-917	2013	Y	Y	Y	2	9	15
36	IC	Mehta, Komal; Malik, L. G.; Bajaj, Preeti	VANET: Challenges, issues and solutions	2013 6th International Conference on Emerging Trends Engineering and Technology ICETET (pp, 78-79) IEEE,	2013	Y	Y	Y	6	9	21
37	IC	Jawanjal, S., & Bajaj, P.	A Design Approach to Traffic Flow Forecasting with soft computing tools	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, 81-84, ICETET 2010	2010	Y-C	Y	Y		5	8
38	IC	Dorle, S. S.; Bajaj, Preeti; Keskar, A. G.; Chakole, Megha	Design of base station's vehicular communication network for intelligent traffic control	2009 IEEE VEHICLE POWER AND PROPULSION CONFERENCE, VOLS 1-3	2009	Y	Y	Y	0	1	2
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42	IC	Bajaj, P; Keskar, AG; Deshmukh, A; Dorle, S; Padole, D	Genetic modeling: Solution to channel assignment problem	International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (pp164-169) 2005, Springer Berlin Heidelberg, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2005	Y	Y	Y	0	0	0
43	IC	Bajaj, P; Keskar, A	Exploring Benefits of Neuro Fuzzy Controller with Vehicle Health Monitoring	International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (pp, 551-558) Springer Berlin Heidelberg, (2004, September).[Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)]	2004	Y	Y	Y	0	0	0
44	IC	Bajaj, P; Keskar, A	Soft computing-based design and control for vehicle health monitoring	KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 1, PROCEEDINGS, Lecture Notes in Artificial Intelligence (Subseries of Lecture Notes in Computer Science)	2003	Y	Y	Y	0	0	0
45	IC	Wankhede, Sanjay S.; Bajaj, Preeti	Development of Model for Estimation of Age Group of Drivers by using Soft Computing Tools	ICETET- ISA 2018,Helix	2018	Y		Y	0		0
46	IC	Kamble, Shailesh D.; Thakur, Nileshsingh V.; Bajaj, Preeti R.	Modified Three-Step Search Block Matching Motion Estimation and Weighted Finite Automata based Fractal Video Compression	INTERNATIONAL JOURNAL OF INTERACTIVE MULTIMEDIA AND ARTIFICIAL INTELLIGENCE, VOL 4, page-27-29	2017	Y		Y	7		10
47	IC	Puranik, Parag; Bajaj, P. R.; Palsodkar, P. M.	Fuzzy based Color Image Segmentation using Comprehensive Learning Practical Swarm Optimization (CLPSO)-A Design Approach	Proceedings of the International MultiConference of Engineers and Computer Scientists 2009 Vol I, IMECS 2009, March 18 - 20, 2009, Hong Kong; (Vol. 1Pp18-20) 2010	2009	Y		Y	0		1

48	IJ	Sonali Navghare,Dr. Preeti Bajaj	Design and Simulation of Sensor for Acquisition of Arterial Pulse Detection	International Journal Of Computers & Technology, Volume: 17 Issue: 03, September 2018	2018						
49	IJ	Sonali Navghare,Dr. Preeti Bajaj	Design of Non Invasive Pulse Rate Detector using LabVIEW	International Journal of Computer Applications (0975 – 8887) Volume 181 – No. 17, September 2018	2018						
50	IJ	SONAM KURDA, Preeti Bajaj, Shubhangi Giripunje,	DESIGN AND DEVELOPMENT of IOT BASED GENERAL PURPOSE BRAin COMPUTER INTERFACE SYSTEM	International Journal of Biomedical Engineering and Technology1, 3/07/2017 001752-64180	2017			Y			
51	IJ	Ms. Sonali Navghare,Dr. Preeti Bajaj,	Detection of Prakriti of Person using Arterial Pulse Detection System with Linear Vector Quantization Method	International Journal of Computer Science and Information Security (IJCSIS) ISSN-1947-5500, Vol. 14No10, October 2016Pg 636-641	2017			Y			0
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53	IJ	Deshpande M,Bajaj P	Performance Improvement of Traffic Flow Prediction Model using Combination of Support Vector Machine and Rough Set	International Journal of Computer Applications 163 (2)	2017			Y			4
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55	IJ	Shreya Gole, Dr. Preeti Bajaj	Prediction of Dropout Students from Engineering Education using Educational Data Mining (EDM)	International Journal of Innovative research Computer and Communication Engineering ISSN(online) :2320-9801, Vol. -5 Issue 4, April 2017, 7370-7378	2017						
56	IJ	Kirtane, S., Deshmnukh, A. Y., Bajaj, P. R., & Keskar, A. G.	Mixed Signal Design of Fuzzy Logic based Systems memory	IJSSST, Vol. 10 No.4Pg 11-18 2015	2015			Y			
57	IJ	Minal Deshpande, Dr.Preeti Bajaj	Performance of Artificial Neural Network for Traffic Flow Prediction	IJ of Engineering Trends and Technology(IJETT) Special Issue Page No486-488(2015)	2015						
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60	IJ	Pratik Gujar, Dr.P R Bajaj	Bio-Inspired Routing Protocol for Vehicular Adhoc Networks	International Journal of Advancements Research & TechnologyISSN: 2278-7763Impact Factor-04Pp-262-268, Volume 3 Issue 4, April-2014	2014			Y			4
61	IJ	Kurumbanshi, Suresh, Avichal Kapur, and Preeti R. Bajaj.	Designing of Grid Structure for Distributed Traffic Flow in Adhoc Network	IJ of Computer Science and Network Security (IJCSNS) 141 (2014) : 25,	2014			Y			0
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63	IJ	JASUTKAR, R. W., BAJAJ, P., & DESHMUKH, A.	Design of 1v 018 µ Folded Cascode Operational Amplifier for Switch Capacitor Sigma Delta Modulator	International Journal of Electrical and Electronics Engineering Research (IJEEER), Vol. 3, Issue 4, Oct 2013, 223-232	2013			Y			
64	IJ	Deshpande, Ms MA, and P. R. Bajaj.	Research on Rough Set Approach To Traffic Flow Prediction	IJ of Engineering Research and Technology, Vol. 2No, 3 (March-2013), ESRSA Publications 2013,	2013			Y			
65	IJ	Suresh Kurumbanshi, Avichal Kapur,Preeti Bajaj ,	Wireless monitoring of physiological data using Nexus-10 & Biotrace	IJ of Electronics & Communication (IIJEC) Vol 2 Issue 1 (2013)	2013						
66	IJ	Vishal Rathee, Preeti Bajaj	Longitudinal Control of Vehicle with Neural Fuzzy Networks Using Geenetic and Gradient Algorithm	International Journal of Computer Science and Information Technology IJCSIT 2008, Vol. 1(2) 113-118	2008						
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69	IJ	Hiware, R. K., Titarmare, A. S., Padole, D. D., & Bajaj, D. P.	Design of Homogeneous Multi-Core based Vehicular Embedded Controller	IJ of Computer Applications, 28(5) Pg 40-47, (2011).	2011			Y			3

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74	IJ	Prashant Sharma, Preeti Bajaj	Integrated Type-2 Fuzzy System for Controlling Throttle and Brake in Smart Car to Implement Car Following and Stop & Go Maneuver	IJCSNS International Journal of Computer Science and Network Security, VOL.11 No.12, December 2011, PP-17-24	2011						
75	IJ	Shubhangi Giripunje, Preeti Bajaj	Recognition of Facial Expressions for Images using Neural Network	International Journal of Computer Applications (0975 – 8887) Volume 40– No.11, February 2012	2012			Y			1
76	IJ	S N Joshi, Preeti Bajaj	Neurofuzzy Logic Concept to Find Prakriti of a Person Using Wireless Data Acquisition System	International Journal of Science and Research (IJSR) , Volume 5 Issue 6, June 2016	2016						
77	IJ	Komal Mehta, P.R. Bajaj, L.G. Malik	Bacterial Foraging Optimization Zone Based Routing (BFOZBR) Protocol for VANET	KASMERA, 44(2), 2016, 87-103	2016						
78	IJ	SD Kamble, NV Thakur, LG Malik, PR Bajaj	Quadtree partitioning and extended weighted finite automata-based fractal colour video coding	Int. J. Image Mining, Vol. 2, No. 1, 2016, 31-56	2016			Y			7
79	IJ	M Agrawal, SD Giripunje, PR Bajaj	Recognizing facial expressions using PCA and genetic algorithm	International Journal of Computer & Communication Technology 2 (7), 32-35	2011			Y			6
80	IJ	RW Jasutkar, PR Bajaj, AY Deshmukh	Very Low Power Sigma Delta Modulator for Biomedical Applications	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)Volume 6, Issue 1, Ver. I (Jan. - Feb. 2016), PP 01-08	2016						
81	IJ	Ghodmare S.D., Khode B.V., Bajaj P.	Application of The Multi Attribute Utility Technique with It's for Sustainability Evaluation of Emerging Metropolitan City of Nagpur	International Journal of Civil Engineering and Technology, 2019	2019		Y-C				

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91	IJ	Kamble, Shailesh D.; Thakur, Nileshsingh V.; Bajaj, Preeti R.	Fractal Coding Based Video Compression Using Weighted Finite Automata	International Journal of Ambient Computing and Intelligence (IJACI) 9 (1),DOI: 10.4018/IJACI.2018010107	2018	Y	Y	Y	1	2	4
92	IJ	Kamble, Shailesh D.; Thakur, Nileshsingh V.; Bajaj, Preeti R.	A Review on Block Matching Motion Estimation and Automata Theory based Approaches for Fractal Coding	International Journal of Interactive Multimedia and Artificial Inteligence, 4, Regular Issue (2016),	2016	Y	Y-C	Y	6		10

93	IJ	Tete, A. D., Deshmukh, A. Y., Bajaj, P., & Keskar, A. (2011).	Design of cortical neuron circuits with VLSI design approach	JSoft Computing 2(4),	2011	Y-C	Y-C	Y			4
94	NC	Apoorva Mishra, Preeti Bajaj	Development of Monitoring Module for Analysing Social Behaviour of Driver for Preventing Accidents With Soft Computing Tools	RTITC-14 (ISBN:978-93-5196-215-1) 23-24 December 2014,GHRCE	2014						
95	IC	Daigavane P Daigavane M Bajaj P	Vehicle detection and neural network application for vehicle classification	Proceedings - 2011 International Conference on Computational Intelligence and Communication Systems, CICN 2011	2011		Y	Y		8	15
96	IC	Wankhede, Sanjay S.; Khanapurkar, M. M.; Rathee, V. R.; Bajaj, P. R.	A Design Approach for Intelligent Speed Adaptation System Using Hybrid Controller	2nd International Conference on Emerging Trends Engineering and Technology (ICETET) 2009 (pp, 593-597) IEEE,	2009	Y	Y	Y	0	0	0
97	IC	Khanapurkar, Milind; Bajaj, Preeti; Gharode, Dakshata	A design approach for intelligent vehicle black box system with intra-vehicular communication using lin/flex-ray protocols	Proceedings of the IEEE International Conference on Industrial Technology, 1-6, April 2008	2008	Y	Y	Y	0	8	13
98	IC	Warathe, Kanchan; Padole, Dinesh; Bajaj, Preeti	A Design Approach to AMBA (Advanced Microcontroller Bus Architecture) Bus Architecture with Dynamic Lottery Arbiter	Proceedings of INDICON 2009 - An IEEE India Council Conference, 1-4	2009	Y	Y	Y	0	1	13
99	IC	Bajaj, P; Dalavi, A; Dubey, S; Mouza, M; Batra, S; Bhojwani, S	Soft computing based real-time traffic sign recognition: a design approach	International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (pp1070-1074) Springer Berlin Heidelberg,	2005	Y	Y	Y	0	2	2
100	IJ	Madankar, M., Bajaj, P.	A FLC based Fingerprint Matching Algorithm for Images Captured with Android Camera for enhanced Security of Online Transaction	International Journal of Computer Science & Engineering ISBN 978-89-5519-163-9PP 1193-1197, 2012	2012		Y-C	Y			0
101	IC	Galande, Mamata V.; Palsodkar, Prasanna; Bajaj, Preeti; Deshmukh, Amol	A neural network based extraction of salient regions by segmenting color images	2nd International Conference on Emerging Trends Engineering and Technology (ICETET) 2009 (pp, 966-970) IEEE,	2009	Y	Y	Y	0	0	1
102	IC	Narole N.G., Bajaj P.R.	A Neuro-Genetic System Design for Monitoring Drivers Fatigue: A Design Approach	First International Conference on Emerging Trends Engineering and Technology 2008, ICETET08, (pp, 711-714) IEEE,	2008		Y-C	Y			

103	IC	Palsodkar P., Bajaj P.	A Novel Approach to Extract Salient Regions by Segmenting Color Images with Hybrid Algorithm	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010, (pp, 605-609) IEEE, (2010, November).	2010		Y	Y		0	0
104	IC	Kher S Bajaj P Sharma P	A Novel fuzzy control of the intensity of head lights for night driving	IEEE Intelligent Vehicles Symposium, Proceedings (2000)	2000			Y		4	6
105	IC	Sharma, P., & Bajaj, P.	Accuracy comparison of vehicle classification system using interval type-2 fuzzy inference system	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010 (pp, 85-90) IEEE,(2010, November).	2010	Y-C	Y	Y		8	14
106	IC	Devi M.S., Bajaj P.R.	Active Facial Tracking	3rd International Conference on Emerging Trends Engineering and Technology (ICETET) (pp, 91-95) IEEE, Nov. 2010	2010		Y	Y		5	7
107	IC	Palsodkar, Prasanna; Deshmukh, Amol; Bajaj, Preeti; Keskar, A. G.	An Approach for Four Way Set Associative Multilevel CMOS Cache Memory	International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (pp, 740-746) Springer Berlin Heidelberg,	2007	Y	Y	Y	1	1	3
108	IC	Daigavane, Prema; Bajaj, Preeti	Analysis of selective parameters contributing to road accidents on highways for establishing suggestive precautionary strategies	Emerging Trends Engineering and Technology (ICETET) 2009 2nd International Conference on (pp, 576-580) IEEE,	2009	Y	Y	Y	0	4	5
109	IC	Hande, Jayant Y.; Khanapurkar, Milind; Bajaj, Preeti	Approach for VHDL and FPGA Implementation of Communication Controller of Flex-Ray Controller	Emerging Trends Engineering and Technology (ICETET) 2009 2nd International Conference on (pp, 397-401) IEEE,	2009	Y	Y	Y	0	4	4
110	IC	Deshmukh, A., Bajaj, P., & Keskar, A. G. (2007, September).	Autonomous Mobile Systems: Fuzzy Controller Design with VLSI Approach	Intelligent Transportation Systems Conference2007ITSC 2007IEEE (pp, 773-777) IEEE,	2007		Y	Y		0	2
111	IC	Belkhede, M., Gulhane, V., & Bajaj, P. (2012).	Biometric mechanism for enhanced security of online transaction on Android system: A design approach	Advanced Communication Technology (ICACT) 2012 14th International Conference on (pp1193-1197) IEEE,	2012		Y	Y		8	18
112	IC	Chourasia, J. N., & Bajaj, P. (2010, November).	Centroid based detection algorithm for hybrid traffic sign recognition system	Emerging Trends Engineering and Technology (ICETET) 2010 3rd International Conference on (pp, 96-100) IEEE,	2010	Y-C	Y	Y		21	26

113	IC	Kirtane, S., Deshmukh, A. Y., Bajaj, P. R., & Keskar, A. G. (2008, July).	Cmos Mixed Signal Design of Fuzzy Logic Based Systems	Emerging Trends Engineering and Technology 2008ICETET08, First International Conference on (pp457-462) IEEE,	2008	Y-C	Y	Y		2	2
114	IJ	Bhatia, D., Nirkhi, S., & Bajaj, P.(2011)	Context-aware Personalized Mobile Web Search Techniques-A Review	International Journal of Computer Science and Information Technology IJCSIT 2011, Vol. 220112440-2443,	2011			Y			
115	IJ	Doifode, N., Padole, D., & Bajaj, P. R. (2008).	Design and Performance analysis of efficient bus arbitration schemes for on-chip shared bus Multi-processor SoC	Journal of Computer Science and Network Security, 8Pg250-255,	2008		Y-C	Y			10
116	IC	Gaidhane, A., Khanapurkar, M. M., & Bajaj, P. R. (2008, July).	Design Approach for FPGA Implementation of Flexray Controller Using VHDL for Intra Vehicular Communication Application	First International Conference on Emerging Trends Engineering and Technology (pp1002-1006) IEEE,	2008		Y	Y		3	5
117	IJ	Milind Khanapurkar , Dr. Preeti. Bajaj Sandesh Dahake, Hemant Wandhare	Design approach for VHDL and FPGA Implementation of Automotive Black Box using CAN Protocol	(IJCSNS) International Journal of Computer Science and Network Security, Vol. 8 No9 September 2008	2008		Y-C	Y			6
118	IC	Tete A.D., Deshmukh A.Y., Bajaj P., Keskar A.G.	Design of dynamic synapse circuits with VLSI design approach	Proceedings - 3rd International Conference on Emerging Trends in Engineering and Technology, ICETET 2010	2010		Y	Y		2	3
119	IC	Dongare, S., Padole, D., & Bajaj, P. R.	Design of Shared Resource Based Multicore Embedded Controller Using LEon Processor	Emerging Trends Engineering and Technology (ICETET) 2010 3rd International Conference on (pp, 776-780) IEEE,	2010		Y	Y		0	3
120	IC	Bankar R T, Bajaj P R, Deshpande R M.	A Design Approach for Driver's Vigilance and Monitoring System	4th International Conference on Emerging Trends Engineering and Technology (ICETET) 2011 (pp140-142) IEEE, TBD Port Louis, Mauritius 18 Nov - 20 Nov 2011	2011		Y-C	Y		0	0
121	IC	Devi, M. S., Choudhari, M. V., & Bajaj, P.	Driver drowsiness detection using skin color algorithm and circular hough transform	Emerging Trends Engineering and Technology (ICETET) 2011 4th International Conference on (pp129-134) IEEE,	2011		Y-C	Y		10	17
122	IC	Devi, M. S., & Bajaj, P. R. (2008, July).	Driver fatigue detection based on eye tracking	Emerging Trends Engineering and Technology 2008ICETET08, First International Conference on (pp, 649-652) IEEE,	2008		Y	Y		41	87
123	IJ	Saradadevi, M., & Bajaj, P. (2008).	Driver fatigue detection using mouth and yawning analysis	IJ of Computer Science and Network Security, 8(6) Pg 183-188(2008)	2008			Y			100

124	IC	Doifode, N., Padole, D., & Bajaj, P. (2008, July).	Dynamic Lottery Bus Arbiter for Shared Bus System on Chip: A Design Approach with VHDL	Emerging Trends Engineering and Technology 2008ICETET08, First International Conference on(pp, 984-989) IEEE,	2008		Y	Y		8	12
125	IC	Bajaj, P; Keskar, A	Evolutionary fuzzy modeling of pre-trip plan assistance system with vehicle health monitoring	ITSC 2004: 7TH INTERNATIONAL IEEE CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS, PROCEEDINGS	2004	Y	Y	Y	0	0	0
126	IC	Patil, K. K., Giripunje, S. D., & Bajaj, P. R.	Facial Expression Recognition and Head Tracking in Video Using Gabor Filter	Emerging Trends Engineering and Technology (ICETET) 2010 3rd International Conference on (pp152-157) IEEE,	2010		Y-C	Y		5	10
127	IC	Padole, Dinesh; Bajaj, Preeti	Fuzzy arbiter based multi core system-on-chip integrated controller for automotive systems: A design approach	Electrical and Computer Engineering2008, CCECE 2008, Canadian Conference on (pp, 001937-001940) IEEE,	2008	Y	Y	Y	0	2	6
128	IC	Devi, Mandalapu Sarada; Bajaj, Preeti R.	Fuzzy Based Driver Fatigue Detection	IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN AND CYBERNETICS (SMC 2010)	2010	Y	Y	Y	1	4	8
129	IC	Kher S Bajaj P	Fuzzy control of head-light intensity of automobiles: design approach	Proceedings of the SICE Annual Conference (1998)	1998			Y		4	8
130	IC	Padole, D., & Bajaj, P. (2008, July).	Fuzzy Logic Arbiter for Shared Bus Multiprocessor System: A Design Approach	Emerging Trends Engineering and Technology 2008ICETET08, First International Conference on (pp1331-1335) IEEE,	2008		Y	Y		6	5
131	IJ	Jasutkar, R. W., Bajaj, P. R., & Deshmukh, A. Y. (2011, September).	GA based low power sigma delta modulator for biomedical applications	Recent Advances Intelligent Computational Systems (RAICS) 2011 IEEE (pp, 772-776) IEEE,	2011		Y	Y		3	3
132	IJ	Deshmukh, A. Y., Bavaskar, A. B., Bajaj, P. R., & Keskar, A. G. (2008).	Implementation of complex fuzzy logic modules with VLSI approach	IJ on Computer Science and Network Security, 8 Pg172-178,	2008	Y-C	Y-C	Y			17
133	IJ	Wankhede, S. S., Khanapurkar, M. M., & Bajaj, P. (2011).	Intelligent Speed Adaptation System with Hybrid Algorithm	International Journal Of Computer Science and Network Security, IJCSNS,Vol. 11 Issue (1) Pg 97-101,	2011		Y-C	Y			1
134	IC	Khorgade, Manisha; Deshmukh, A. Y.; Bajaj, Preeti; Keskar, A. G.	Optimization of cost function with cell library placement of VLSI circuits using simulated annealing	2009 Second International Conference on Emerging Trends in Engineering & Technology, ICETET (pp 173-178) IEEE, 2009	2009	Y	Y	Y	0	1	2

135	IC	Sharma, Prashant; Bajaj, Preeti	Performance Analysis of Vehicle Classification System using Type-1 Fuzzy, Adaptive Neuro-Fuzzy and Type-2 Fuzzy Inference System	2009 2nd International Conference on Emerging Trends in Engineering and Technology, ICETET 2009	2009	Y	Y	Y	0	6	9
136	IJ	PM Daigavane, P Bajaj	Real-Time Vehicle Detection and Counting Method for Unsupervised Traffic Video on Highways.	IJCSNS International Journal of Computer Science and Network Security; Vol. 10 No 8, August-2010, Pages: 112-117	2010	Y-C		Y			24
137	IC	Daigavane, P. M., & Bajaj, P. R.	Road lane detection with improved canny edges using ant colony optimization	3rd International Conference on Emerging Trends Engineering and Technology (ICETET) 2010 IEEE-2010 Pages: 76 - 80	2010	Y-C	Y-C	Y			29
138	IC	Bajaj P Kher S	Smart control of headlight intensity of automobiles for improved night vision	Proceedings of the SICE Annual Conference (1999)	1999			Y		6	6
139	IC	Bajaj, P; Keskar, AG	Smart pre -trip plan assistance system with vehicle health monitoring approach	IEEE Conference on Intelligent Transportation Systems, Proceedings, ITSC, vol. 2002-January (2002)	2002	Y	Y	Y	0	2	1
140	IJ	Chandankhede, P. H., Puranik, P. V., & Bajaj, P. R. (2011).	Design Approach of Texture Classification using Discrete Cosine Transform with Soft Computing Tool	IntJ, on Recent Trends Engineering & Technology 5(01),	2011			Y			1
141	IC	Preeti Bajaj, Amol Mandlekar	Speech Based File Lock: A Design Approach	SICE 2000 : Proceedings of the 39th SICE Annual Conference : International Session papers : Iizuka, Japan, 26-28 July 2000. 287-290	2000			Y			0
142	IJ	Sharma, P., Bajaj, P., & Abrahim, A. (2009).	Vehicle Classification and Speed Measurement using Fuzzy-Neural Network Optimised by Genetic Algorithm: A Design Approach	Digital Technology Journal, 2(1), 61-65, 2009	2009		Y-C	Y			2
143	IC	Bajaj, Preeti; Sharma, Prashant; Deshmukh, Amol	Vehicle Classification for Single Loop Detector with Neural Genetic Controller: A Design Approach	Intelligent Transportation Systems Conference2007ITSC 2007IEEE (pp, 721-725) IEEE,	2007	Y	Y	Y	0	5	6
144	IC	Jajulwar, K.K., Deshmukh, A., Bajaj, P.R. and Keskar, A.G.	VHDL-AMS based fuzzy Logic controllers	2008 First International Conference on Emerging Trends Engineering and Technology (pp1007-1010) IEEE,GHRCE 2008July,	2008		Y	Y		1	1