

# **BIO-DATA**



**Dr. Pardeep Singh Cheema,  
Principal/Director/Administrative Head,  
Akal Collage of Engineering & Technology,  
Eternal University Baru Sahib-173101**

Religion: Sikh

Date of Birth: 17-07-1972

Present Postal Address: #37 RagbirMarg, Model Town Patiala Punjab

Father's name: Exn. JoginderSingh(Ex-Chief Engineer), Civil Engineer Retired  
from Army officer BRO (*Alumni of PEC Chandigarh*)  
(Border Roads organization)

• Languages Known :*English , Hindi & Punjabi*

Email ID :[Pardeep13@yahoo.com](mailto:Pardeep13@yahoo.com). [Dean\\_engg@eternaluniversity.edu.in](mailto:Dean_engg@eternaluniversity.edu.in)

Contact No: **09417588525 /9816400641**

**Permanent Address:** VPO- Mandvi Tehsil- MoonakDistt Sangrur Punjab

**Teaching Experience:**16 Years in Central Funded Deemed University Punjab.

**3 Years** (2010-2013)- Worked as SeniorAssociate Professor in Jazan University UAE

**2013-2014**-Worked as Director-principal Engineering Desh Bhagat University

Presently working as Director Technical education in Kalgidhar Trust & presently on deputation  
working as Dean Akal Collage of Engineering & Technology Eternal University Baru Sahib.

**PhD Guided:**One (1) From Punjab Technical University Jalandhar Mr Kulwinder Singh  
Maan Title: “Information Modelling Using Decision Support Systems for Strengthening Rural Health Issues”

**Presently PhD students:** (02) Pooja Chopra D/o Mohinder Pal

**Discipline:** Computer Science (Cloud Computing)

From: Punjab Technical University Jalandhar

ErGurpreet Singh **Discipline:** Computer Science (Cloud Computing)

From: Punjab Technical University Jalandhar

**Details of M.Tech.students guided: (10)**

Rohit Kumar	2007	DNS Application
Raman Kumar	2008	<a href="#">Routing and Data Compression in SONET and Performance of LANs in Wide Area Network</a>
PradeepTeotia	2009	Optical Switching and Logic through MZI
RakeshGoyal	2009	DWDM
Mahek Gill	2009	MAN
UpinderKaur	2009	CBIR System &itsapplications
Vishvjyoti	2009	Soft computing for CBIR System
RamneekKaur	2015	An Intelligent Framework for Agricultural Land Capability evaluation.
Rituraj	2015	Encryption Based secure data storage on Private Cloud : A Study
KulwinderKaur	2015	Depositing multi channel images in parallel MRI by low rank Matrix decomposition & local pixel grouping with principal component analysis

**Teaching Experience: 21 Years in Teaching**

No	Post	Institute	Total Experience	No of Years
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1	Lect	Chottu Ram Engg Collage Rothak	15 May 1995 to 20 Oct 1997	2 year 4 month
2	Lecturer	SLIET	21 Oct-1997 To 19 Dec 2002	5 years 2 month
3	Senior Lecturer	SLIET	19 Dec 02 to 6 June 07	4 year 4 month
4	Associate Professor	SLIET	6 June 2007 to 31Oct 2010	4 Years( Appox)
5	Professor	SLIET	1 Nov 2010 to 30 November-2010	Four Year
6	Professor	Jazan University (UAE)	06 Dec 2010 to 14 Dec 2013	3years & 6 month
7	Director-Principal	DeshBagat University MandiGobindgarh Punjab	07 Dec 2013 to jan-2015	1 year 2 month
8	Dean cum Professor	Eternal University Baru Sahib	1 Feb-2015 to till date	6 years

### **Conferences Organized**

1. organized Punjab Science Congress in Desh Bhagat University
2. November-2014 organized National Level Children Science Congress sponsored by DST.
3. In october-214 organized National Level Technical Festival "Techfest-2014" at Desh Bhagat University's wing Engineering wing.
4. National Conference on "Latest Trend in IT September 22-23, 2001. I was the organizing Coordinator of the conference.
5. National Conference on "Latest trend in IT & communication, February 9-10, 2008. I was the Coordinator of the conference.
6. Organized National Symposium on IT & its application in may 2009 as a organizing Secretary.
7. National Conference on "Computing , Communications and Information technology Applications 28-29 may 2010 I was the organizing organizing Secretary of the conference.

### **Short Term Program Organized**

- Organized Two-week AICTE-ISTE Sponsored National level Short Term Training Program (STTP) on High Performance Computing: Issues and Applications (STC-HPC2009) at deptt of CSE SLIET Longowal sangrur from June 29<sup>th</sup> –10<sup>th</sup> July, 2009(Deemed to-be university) Punjab..

- Organized Two-week AICTE-ISTE Sponsored National level Short Term Training Program (STTP) on “Wireless & WiMAX Issues: Present Scenario” (WWIPS-2010) from 5<sup>th</sup> July to 16<sup>th</sup> July, 2010 at deptt of CSE SLIET Longowal sangrur (Deemed to-be university) Punjab.
  - Organized Secretary of National Conference RPIT from *last Five* years in Deptt of CSE SLIET
  - Organized Secretary of National Symposium cum workshop from *last Five* years in Deptt of CSE SLIET.

### **LIST OF PUBLICATIONS (On line available)**

The following papers have reported the progress and results of work related to this thesis. Most of the earlier work was focused on ***CBMIR; Gaps & Techniques used for CBIR systems & on Soft Computing*** . Subsequently, the focus of the work was shifted to soft computing based latest techniques. For this purpose many techniques are tested; For comparison Relevance feedback & SVM is also used.

### **International Journal :**

1. Cross Project software Fault Predication at Design Phase By Pardeep Singh & ShrishVerma Referred Journal of International Journals of Computer, Electrical, Automation Control & Information Engineering Vol: 9 No: 3, 2015 at World Academy of Science, Engineering & Technology.
2. An Efficient Software Fault Prediction Model using Cluster Based Classification” Pardeep Singh & ShrishVerma Volume-07 number:03 published at International Journal of Applied Information System SeptOct-2015.
3. Software fault Prediction at Design Phase by Pardeep Singh & others J ElectrEngg Technical Vol:08 No:742 year 2014 IEEE Journal Explorer 2014.
4. Design & Analysis of Piezoelectric Smart Beam for Active Vibration Control” Published at International Journal of Advancement in Research & Technology, Volume-1, Issue:1 June-2012.
5. A Novel Soft computing- Based retrieval system for Medical application” by Pardeep Singh & Sanjay Sharma Vol-26 Issue-07 in ACM Digital library Journal 2012.
6. A16Kb 10T-SRAM With 4x Read-Power Reduction has been accepted for oral presentation at the conference and publication in Proceedings of World Academy of Science, Engineering and Technology, WASET Issue 73, January 2011. DUBAI, UAE
7. A 16Kb 10T-SRAM With 4x Read-Power Reduction has been accepted for oral presentation at the conference and publication in Proceedings of World Academy of Science, Engineering and Technology, WASET Issue 73, January 2011. DUBAI, UAE
8. Distributed Denial of Service Attack In Mobile Adhoc Networks has been presented for oral at the conference and publication in Proceedings of World Academy of Science, Engineering and Technology, WASET Issue 73, January 2011. DUBAI, UAE
9. Parametric analysis & design oo Regional language Character Mapping in Education has been accepted for oral presentation at the conference and publication in Proceedings of

World Academy of Science, Engineering and Technology, WASET Issue 73, January 2011. DUBAI, UAE.

10. "A Medical Images Based Retrieval System using Soft computing Techniques" has been accepted for oral presentation at the conference and publication in Proceedings of World Academy of Science, Engineering and Technology, WASET Issue 67, July 2010. Kuta - Bali, Indonesia
11. "Soft Computing based Retrieval System for Medical Applications" has been accepted for oral presentation at the conference and publication in Proceedings of World Academy of Science, Engineering and Technology, WASET Issue 67, July 2010. Kuta - Bali, Indonesia
12. "Soft computing based medical images retrieval system & future challenges" at International Electronic Engineering Mathematical Society IEEMS Egypt Volume (4), March 2010, pp. 1-10 I.S.S.N. 1687- 8701 <http://www.ieems.net>
13. "Comparing the Effectiveness of Machine Learning Algorithm for Defect Predictions" published in International Journal of Information Technology & Knowledge Management July-Dec-2009 Volume-02 No-2 pp-481-483.
14. "Efficient Techniques used in CBMIR For Medical Image Retrievals" Referred journal World congress on science, Engineering & Technology WCSET 2009 VOLUME 49, JANUARY 2009, ISSN: 2070- 3724 Dubai, United Arab Emirates
15. "Review of the Gaps in CBMIR using Different Methods and Prospective" Referred journal World congress on science, Engineering & Technology WCSET 2008 VOLUME 48, DECEMBER 2008, ISSN: 2070-3724 Bangkok, Thailand
16. Hardeep Singh, DaljeetKaur, SudhakarPanday, P.S. Cheema, "Performance evaluation of concentrating & non-concentrating solar energy based water purification system" published in International Conference on Renewable Energy and Power Engineering (REPE-2018) proceeding held during November 24-26, 2018 in Toronto, Canada.
17. K. Kaur, P.Singh, Evaluating Accuracy, Response Time & Depth of Ancient Punjabi Words for Online Dictionaries to English & vice-versa with context to Voice Tools" was presented in Student Paper competition of ICON 2018: "15<sup>th</sup> International Conference on Natural Language Processing", Punjabi University, Patiala under paper id 86.
18. K. Kaur, P.Singh, "Evaluating Factors for Developing Open Speech API for Typical Punjabi Language & Comparative Study," Int. J. Latest Trends Eng. Technol., vol. 11, no. 4, pp. 45–52, 2018
19. KrishanDutt, Pardeep Singh Cheema ,Dashmesh Singh, Benefits of Digital Resource Center at Remote Locations of District Sirmaur: Facts And Figures, 3<sup>rd</sup> H.P, Science Congress, IIT Mandi (2018).
20. Dutt K, Singh Dashmesh, CheemaPardeep Development of Remote Rural Areas ThroughCloud Computing Based Model. International Journal of Computer Science & CommunicationVolume 11 Issue.11 pp.51—55 March 2020
21. Dutt K, CheemaPardeep Design and Development of Information Security Framework forCloud Computing .International Journal of Advanced Science and Technology. Vol. 29, No. 7, (2020), pp. 12307-12314

22. Kaur Daljeet, Singh Cheema, Linear Fresnel Reflector Concentrator Solar based water Purification System  
International Journal of Scientific Development and Research (IJS DR) ISSN: 2455-2631

**Papers presented/ attended in conference/workshop**

**Total No. = 27**

1. "Performance Evaluation of Concentrating and non-concentrating Solar Energy based Water Purification Systems" 2018 the International Conference on Renewable Energy and Power Engineering (REPE 2018), 24-26 November, 2018, Toronto, Canada. Accepted for publication
2. "Linear Fresnel Reflector (LFR) Concentrator based Solar Water Purification System" Elsevier International Conference Journal on water security, 17-20 June 2018, Toronto, Canada.
3. "Water resources availability and management policy in Himachal Pradesh:- a survey" 2<sup>nd</sup> Himachal Pradesh Science Congress, 20-21, Nov, 2017.
4. "A Review of Computer Models used to Assess the Performance of Photovoltaic System" 2<sup>nd</sup> International Conference on Innovative Research in Engineering, Science & Technology, 7-8 April, 2017, IREST/OP/070.
5. "Software Tools for Analyzing the Hybrid Renewable Energy Sources:- A Review" International Conference on Inventive Systems and Control, 19-20 January 2017, ISBN:- 987-1-5090-4714-7, DOI: pp- 584-587.
6. "Optimal Design of Photovoltaic Power System for a residential load" International Conference on Inventive Systems and Control, 19-20 January 2017, ISBN:- 987-1-5090-4714-7, DOI: [10.1109/ICISC.2017.8068595](https://doi.org/10.1109/ICISC.2017.8068595) pp- 602-605.
7. "Review on Cloud Computing & its application in Engineering & Sciences" at CCAES-2013 at Deptt of CSE Rajasthan Technical University Kota (Raj).
8. "Research On Applications Of Soft Computing Agents" presented in National Conference On Computing, Communication & Information Technology CCIT-2010 28th-29th May, 2010 ORGANIZED BY: Department Of Computer Science & Engineering SLIET (Deemed To-Be University) Longowal Distt. Sangrur (Punjab), India
9. "Smart CBIR system based on color and texture feature" presented in National Conference On Computing, Communication & Information Technology CCIT-2010 28th -29th May, 2010 ORGANIZED BY: Department Of Computer Science & Engineering SLIET (Deemed To-Be University) Longowal Distt. Sangrur (Punjab), India
10. "Effect of Distributed Denial of service attacks on the performance of Ad-hoc on demand distance vector routing protocol." presented in National Conference On Computing, Communication & Information Technology CCIT-2010 28th -29th May, 2010 organized by: Department Of Computer Science & Engineering SLIET (Deemed-To-Be-University) Longowal Distt. Sangrur (Punjab), India
11. "Parametric analysis & design of Regional language Character Mapping" having paper ID3087 has been presented in National conference RACIET – 2010 Deptt of EIE SLIET, Longowal Sangrur Punjab.

12. "Intelligent Retrieval System for Medical Applications " having paper ID3087 has been accepted in National conference RACIET – 2010 Deptt of EIE SLIET, LongowalSangrur Punjab.
13. "Soft Computing for Industrial Innovation: An Overview" presented in National Seminar on Chemical Industry In India: Opportunities And Challenges (Ciioc-2010) 5th-6th March, 2010 at Deptt of Chemical engg& Paper Technology SLIET LongowalSangrur Punjab.
14. Soft computing based Intelligent Retrieval System for Gray Image" has been presented in the National conference NCCN-10 to be held at SLIET, LongowalSangrur Punjab.
15. "Intelligent Retrieval System for Medical Application" presented in National Conference on Emerging Principles and Practices of Computer Science and Information September 4-5, 2009 Technology (EPPCSIT ) Guru Nanak Dev Engineering College, Ludhiana
16. "Medical Image Enhancement using Multi-resolution methods" presented at GJU Hissar in NCACNIT-09 "Advances in computer Networks & Information Technology" March 24-25, 2009
17. "Challenges & solutions in CBIR for Medical Images(ID-219)" presented at GJU Hissar in NCACNIT-09 "Advances in computer Networks & Information Technology" March 24-25,2009
18. Pardeep Singh, GurjinderKaur, "Smart Antenna Implementation by Metawave for 3G Mobile System" presented in National Conference on "Research and Practises in current areas of IT " at SLIET Longowal , March , 26-27,2004
19. Pardeep Singh, GurjinderKaur, "Commercial Concepts in GSM & UMTS N/W", presented in National Conference on "Research and Practises in current areas of IT " at SLIET Longowal March 27,2004
20. Pardeep Singh, GurjinderKaur, "Smart Antenna Implementation by Metawave for 3G Mobile System" presented in National Conference on "Research and Practises in current areas of IT " at SLIET Longowal , March , 26-27,2004
21. Pardeep Singh, GurjinderKaur, "Commercial Concepts in GSM & UMTS N/W", presented in National Conference on "Research and Practises in current areas of IT " at SLIET Longowal March 27,2004
22. "State Of Art Technique For Denoising Of Medical Images" IEEE International Advance Computing Conference (IACC'09) 6-7 March 2009 Thaper University Patiala Punjab INDIA
23. "Spatial Context Feature for Medical Image Retrieval System" IEEE International Advance Computing Conference ( IACC'09) 6-7 March 2009 Thaper University Patiala Punjab INDIA.
24. Attended one day international conference on "Intelligent Systems: Approaches, Technologies and Network" by Panipat Institute of Engineering & technology, Samalkha. Sponsored by MHRD New Delhi on 29<sup>th</sup> March 2019.
25. Aattended one day Python workshop for teachers', by IIT Bombay through ICT on 22nd June, 2019.

26. Attended Short Term Course on “VLSI Design Through ICT” Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh from September 24<sup>th</sup> to 28<sup>th</sup> , 2018 at Akal College of Engineering & Technology, Eternal University, Baru Sahib, HP India.
27. Participated in one day program on “ Internshala Internship Day” on 25<sup>th</sup>
28. Attended Short Term Course on “GPU Programming using CUDA Through ICT” Conducted by NITTTR Chandigarh from September 10<sup>th</sup> to 14<sup>th</sup> , 2020 at Akal College of Engineering & Technology, Eternal University, Baru Sahib, HP India.

#### Schooling

S.No	Class/Standards	Board	Percentage
01	10th	Govt Senior Secondary School Anta Kota( Rajasthan Board)	88%
02	10+2	Sanik School Kunjpura Karnal Haryana	91.5%

#### Technical Qualification:

S.No	Qualification	University	Percentage
1.	B.E (CSE) 1995	REC Engg collage (Presently NIT) <a href="#">Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.</a>	72%
2.	M.S (2002) ( Software System)	BIT Pillani (Autonomous University ) Rajasthan	8.75%
3	Ph.D (2010)	Started at SLIET Longowalsangrur Awarded by Singhania University Rajasthan	Awarded in
Title: <b><i>Content Based Image retrieval for Medical images using Soft Computing</i></b>			
4	MBA (HR) 2013	Madurai Kamraj University Chennai	75%

#### Other Achievements

- Member IEEE
- International association of Engineers (IAENG)
- Member Indian Society of Technical education (ISTE)
- Member of Board of Study (Computer Sc. & Engg. and Information Technology), Punjab



Technical University, Jalandhar, since 2005.

- Expert member of the Inspection committee of the Directorate of Technical Education, Haryana, Chandigarh, India

### **Other Achievements contd.**

“Review on Cloud Computing & its application in Engineering & Sciences” at CCAES-2013 at Deptt of CSE Rajasthan Technical University Kota (Raj).

- Attended two-weeks AICTE sponsored Short term training program on “Wireless & WiMax Issues: Present Scenario” at S.L.I.E.T., Longowal, Sangrur (Punjab) during July 5<sup>th</sup>-16<sup>th</sup>, 2010.
- Attended AICTE sponsored STC one-week Short term training program titled “Understanding Soft Computing & its applications” at GND Collage Ludhiana during January 06-10, 2009.
  - Attended two-weeks AICTE sponsored Short term training program on “Managerial & Communicative Skills in the Era of Globalization” organized by Deptt of EDP at S.L.I.E.T., Longowal, Sangrur (Punjab) during July 21<sup>th</sup>-31<sup>th</sup>, 2009.
  - Attended two-weeks AICTE sponsored Short term training program on “High Performance Computing: Issues & applications” organized by Deptt of CSE at S.L.I.E.T., Longowal, Sangrur (Punjab) during June 29<sup>th</sup>-July 10<sup>th</sup>, 2009.
- Attended one-weeks Short term training program on “VLSI Circuits Design using VHDL” at Guru Nanak Dev Engineering College, Ludhiana during June 21-26, 2004.
- Attended Three Week short Term Course on UGC-Refresher course on “Automated Software Development” at Department of CSE Thaper University Patiala during 04-23 December, 2006.
  - Attended Two Week short Term Program on “Web Page Designing” conducted by the Computer Science Deptt at NITTTR Chandigarh during 20/12/2004 to 31/12/2004.
- Attended Two Week short Term Program on “Induction Program for Faculty of Engg.collage” conducted by the Education & Educational management Deptt at NITTTR Chandigarh during 15/07/2002 to 26/07/2002.
- Attended Two Week short Term Course on “Application of Computers in Chemical Sciences & Engineering” at SLIET Longowal during May 28- June 8, 2001.

- Attended Two week AICTE & ISTE short Term Course on “Neural Networks & Advanced Computing Techniques” summer school at Deptt of Electronics & Instrumentation Engg Bundelkhand Institute of Engg & Tech Jhansi (U.P) from December 18<sup>th</sup>-30<sup>th</sup> 2000.
- Attended Two week AICTE & ISTE short Term Course on “Applied Electronics Instrumentation summer school at Deptt of Electronics Engg GNDEC Ludhiana from June 19<sup>th</sup> - 30<sup>th</sup> 2000.
- Attended one week workshop organized by CDDC Pune on Parallel Computing- Algorithms & Application (PCAA-99) from June 21-25, 1999
- Participated in one day program on “Internshala Internship Day” on 25<sup>th</sup>

### **Programming Skills**

- MATLAB 7.4 core, Neural Network Toolbox and Fuzzy toolbox, Genetic Algorithm programming
- Turbo C/ C++ or GCC, Java, Perl.
- WEB Applications: JavaScript, ASP, HTML, Flash, Servlets, Beans.
- Operating System: Window-98, Windows XP Professional 2003, MS-DOS 6.0, Linux.

### **Extra Circular activities:**

- 1) Incharge Community development scheme of Govt of India at SLIET to run the short term (six month) computer Training programs for the villagers from 10 years.
- 2) Vehicle Controller of SLIET 12 Vehicles (Controller & Maintenances)
- 3) Organized Punjab Police Training program for Eight month in Computer Literacy & IT knowledge one year 2009-2010.
- 4) Organized annually SLIET Entrance Test from last 12 years at various capacities.
- 5) Warden of Boys Hostel from last Thirteen years.
- 6) Incharge of Institute Discipline committee.
- 7) Organized annually Technical festival "Techfest" from last 12 years at various capacities.
- 8) Active organizing member of SLIET NSS & NCC activities
- 9) Incharge Central Time Table Committee.
- 10) Faculty Adviser from last two years of National Level Techfest Function organized at SLIET

### **Expert Talks & Guest Lectures**

- Delivered Special Invited talk Lecture on "Recent Trends in Optical Communication" in the Short term course from 9-20 Dec 2002 sponsored by AICTE and ISTE held at Guru Nanak Dev Engg. College, Ludhiana on 16<sup>th</sup> Dec, 2002.
- Delivered expert talk on the topic "Fiber Dispersion and Nonlinearities at All India Seminar on Photonics : Emerging Science and Technology held at Guru Teg Bahadar Khalsa Institute of Engineering & Technology, Chhapianwali, Malout, February 14-15, 2004.
- Expert talk on, "CBIR and Its Applications" National Conference ECCS Sept., 2004
- Delivered for expert talk on the topic "Trends in Communication Engineering" at Kanya Maha Vidyalaya, Jalandhar in 27<sup>th</sup> Nov 2003.
- Delivered expert talk in Two-week AICTE-ISTE Sponsored National level Short Term Training Program (STTP) on High Performance Computing: Issues and Applications (STC-HPC2009) at deptt of CSE SLIET Longowal sangrur from June 29<sup>th</sup>—10<sup>th</sup> July, 2009 (Deemed to-be university) Punjab..
- Delivered expert talk in Two-week AICTE-ISTE Sponsored National level Short Term Training Program (STTP) on "Wireless & WiMAX Issues: Present Scenario" (WWIPS-2010) from 5<sup>th</sup> July to 16<sup>th</sup> July, 2010 at deptt of CSE SLIET Longowal sangrur (Deemed to-be university) Punjab.

### **Administrative Activities:**

- T&P Incharge CSE Deptt
- Student Counselor, GIT GCS, DCA & CCA
- Chairman of Campus Wide Networking SLIET
- Incharge RTI Cell SLIET

### **Project Implemented**

"Cloud Based Digital Resource Center(DRC)- For Rural Remote Area " sponsored by HIMCOSTE, Shimla H.P. Govt.

### **Experts & References:**

**1. Dr Punia (Director NITTER Chandigarh)**

Gobindgarh 09876129060

**2. Dr Manohar Singh Saini (Guru Nanak Dev Engineering Collage (Autonomous status)**

**Director** GNE Ludhiana Punjab Mobile no: 09914425025

**3. Dr R.P S Bedi (Controller Exam & Professor CSE)**

Punjab Technical University Moblie No:09501006828

**4. Dr R.S Kaler Professor cum Director Academic**

**Thaper University Patiala -8146094610**

**5. Dr. Shyam Sunder Pattnaik Professor & Head ECE(Mobile No: 09872879362)**

National Institute of Technical Teachers' Training and Research NIITR Chandigarh

**Declaration : I solemnly declare that :**

- I. The foregoing information is complete and correct. I am not aware of any circumstances which may impair my fitness for employment.
- II. I have never been disqualified from University work/appearing in any University examination.
- III. I have never been dismissed either from Govt. or from University, college or other Public or Private Organization service.
- IV. I have never been prosecuted, kept under detention or bound down/fined, convicted by the Court of Law for any offence.

Place : Patiala

Pardeepsingh

**Dated :14-01-2015**

**Signature**