Bio-Data

Name	:	**(Dr.) HIMANSHU**
Designation	:	Professor
Department	:	Computer Engineering
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Area Of Specialization	:	**Ph.D. Specialization:** Information System Effectiveness: A Business-IT Alignment Approach

Research Area: Software Engineering, Software Project Management, Information Systems, Data Analytics

Subjects Taught: Advanced data Structures, Algorithm Analysis & Design, Software Engineering, Software Project Management, Management Information Systems, Research Methodology, Computer System Architecture, Computer Hardware, Operating Systems, Microprocessors & Porogramming.

Academic Qualifications:

Degree	Title	%age	Date of Award	University
Ph.D./D.Phil.	Information System Effectiveness: A Business Information Technology Alignment Approach		12.11.2007	Punjabi University, Patiala

M.E. in Computer Science	Thesis titled :On Multistage interconnection Networks	CGPA=10.0 (90%)	06.10.1998	Thapar institute of Engineering and Technology, Patiala (Deemed University)
B.Tech. in Computer Science	-------------------	74.4%	1993	Punjabi University, Patiala

Employment History:

Designation	Name of Employer	Period		Brief Description of the Duties
		Joining	Leaving	
Lecturer in Computer Science & Engineering,	Thapar Institute of Engineering & Technology, Patiala	Aug.93	Aug.95	Teaching UG classes
Lecturer in Computer Engineering,	Thapar Polytechnic, Patiala	Sept.95	Nov.96	Teaching diploma classes
Lecturer in Computer Engineering,	Guru Nanak Dev Engg. College, Ludhiana	Nov.96	Dec.97	Teaching UG & PG classes and Research.
Lecturer in Computer Science	Technical Teachers' Training Institute, Chandigarh	Dec.97	Dec. 2000	Teaching UG & PG classes and Research.
Lecturer in Computer Science & Engineering	Department of Computer Science, Punjabi University, Patiala.	05, Dec. 2000	15 Jun, 2006	Teaching UG & PG classes and Research.
Reader in Computer Engineering,	University college of Engg. (UCoE), Punjabi University, Patiala	15 June, 2006	15 June 2009	Teaching UG & PG classes and Research
Associate Professor in Computer Engineering	University college of Engg. (UCoE), Punjabi University, Patiala	15 June, 2009	15 June 2012	Teaching UG & PG classes and Research

Professor In Computer Engineering	Punjabi University, Patiala	15 June, 2012	Still working	Teaching UG & PG classes and Research

Membership of the Professional Bodies/Organizations:

- Life member of Computer Society of India(membership No. 11502269).
- Membership of International Association of Engineers (IAENG); membership no:104717.
- Member of International Association of Computer Science and Information Technology (IACSIT); membership number:80333464.
- Member of the Internet Society (Registration No: 286096); registration date 12/02/11.
- Online membership of International Scientific Society for Information Theories and Applications (ITHEA).
- Online membership of Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICGST).

Research Profile

-Publications in Research Journals : 95

- ME/M.Tech. Theses Guided: 32

- Ph.D. guided: 09

- Ph.D. ongoing **: 07**

Undergoing Ph.D Thesis: **07**

Ph.D.'s Completed under my Supervision:

Degree	Name of The Candidate	Registration/RollNo. Number	Title of the Thesis/Dissertation
Ph. D. in Computer Engineering	Raman Maini	PUP(PhD) 2009-273	ANALYSIS AND DEVELOPMENT OF IMAGE EDGE DETECTION TECHNIQUES

Ph. D. in Computer Engineering	Sushil Kumar	SLIET(L)94-2	DESIGN OFG FRAMEWORK TO IMPROVE EFFECTIVENESS OF E-GOVERNANCE IN THE STATE OF PUNJAB
Ph. D. in Computer Engineering	Bikram Pal Kaur	PU(P) 90-74 Roll No.2618	INFORMATION SYSTEM FAILURES: A NUERO-COMPUTING APPROACH TO THE CAUSES OF CONCERN
Ph. D. in Computer Engineering	Kanwalvir Singh	*Registration No.: 114-GGSIIT (TS) 2001*	ASSESSMENT OF LAND RECORD INFORMATION SYSTEM AND ITS E-ENABLEMENT USING MOBILE COMMERCE
Ph.D. in Computer Science	Ashish Seth	PUP (Ph.D) 2010- 113	SERVICE ORIENTED ARCHITECTURE A DESIGN AND IMPLEMMENATAION MODEL
Ph. D. in Computer Engineering	Gaurav Gupta	PUP(2002)-494	CUSTOMER RELATIONSHIP MANAGEMENT AND SHOPPERS BASKET PLANNING BASED ON DATA MINING
Ph. D. in Computer Engineering	Anjali Anand	UCE(P)2009-654	DETECTING AND MITIGATING THE EFFECT OF SELFISH, MLIACIOUS AND ERRONEOUS NODES

			IN MOBILE ADHOC NETWORKS
Ph. D. in Computer Engineering	Ashima	PU(P) 2003-916	SOFTWARE PROCESS SYSTEM REENGINEERING IN AMLL-AND MEDIUM ENTERPRISES
Ph.D. in Computer Engineering	Navjot Kaur		

ME/M.Tech. Theses Supervised:

S.No.	Title of Thesis	Name of the student	Year of completion	University/ Institute	Coguide
1	On Multi-Stage Interconnection networks	Birmohan Singh (student of TTTI, chandigarh)	2000	Thapar Institute of Engg &Tech. (TIET), Patiala	Nil
2.	Faster Generation of Algebraic Fractals	Lakhwinder Kaur (student of TTTI, Chandigarh)	2000	TIET, Patiala	Nil
3.	Distributed computation Using Asynchronous Communication	B.David Raju (student of TTTI, Chandigarh)	2000	TIET, Patiala	Ms. Syamala Devi, Reader, DCSA Panjab Univ.Chd.
4.	Object oriented programming of Numerical Methods with GUI	A.SivaPrasad (student of TTTI, Chandigarh)	2000	TIET, Patiala	Nil
5.	Wavelet Transform and Texture classification	Arun A. Jambhale (student of TTTI, Chandigarh)	1999	TIET, Patiala	

6.	On-line Web-shopping	Hari Moorti (student of TTTI, Chandigarh)	2000	TIET, Patiala	
.	Performance Analysis of Existing Election system and with new platform	Raj Kumar chopra (student of TTTI, Chandigarh)	2001	TIET, Patiala	Dr. Renu Vig , TTTI,chd
8.	A new algorithm for the permutation passibility of MDOT & FT .	Bhim Sain singla	2003	Punjabi University, Patiala	Nil
9.	On the permutation passibility behavior of some Multi-stage interconnection networks under faults	Rajneesh Rani	2003	Punjabi University, Patiala	Nil
10.	On Bandwidth of Multi-stage interconnection networks	Gaurav Gupta	2003	Punjabi University, Patiala	Nil
11.	On throughput of Multi-stage interconnection networks	Amandeep Verrma	2003	Punjabi University, Patiala	Nil
13.	On Comparative analysis of permutation passibility behavior of some	Amit Mathur	2005	Punjabi University, Patiala	Nil

	Multi-stage interconnection				
14.	On Text mining	Vishal Gupta	2005	Punjabi University, Patiala	Dr. G.S. Lehal, Professor, DCS, PU, Patiala
15.	Performnce Analysis of Modified Four tree Network	Sonia Sharma	2007	-do	
16.	Performnce Analysis of Four tree – 2 Network	Neha Arora	2007	-do	
17	Permutation Passibility of multistage Interconnection Networks under faults	Arpana Sharma	2008	-do	
18	Developing an efficient parallel routing algorithm for Optical MINs	Pardeep Kumar	2008	-do	
19	Performance Analysis Of Optical Multistage Interconnection Networks with limited crosstalk under switch conflicts	Vishavdeep Kaur	2008	-do	
20.	Reliability Analysis of multi-stage Interconnection	Shally Bansal	2009	-do-	

	Networks				
21	ERP Implementation in Engineering Institutes in the State of Punjab	Pranab Garg	10911001	-do-	
22.	Determinnats of Effective Teaching in Engineering institutes	Mohit Jindal	10911006	-do-	
23.	A modified DBSCAN Algorithm for Spatial clustering	Navneet KAur	10911018	-do-	
24.	Cache oblivious Algorithms and Data Structures	Upasna	11091022	-do-	
25.	Color Image Optimization Based on Euclidian Distance Using Bacteria Foraging Optimization	Heena	11091014	-do-	
26	Performance Evaluation of Routing Protocols in Manet	Nitish Jindal	11191005	-do-	
27.	Simulation Based Analysis of Performance of OSLR and GRP in Mobile Adhoc Networks	Gagandeep Singh	11191003	-do-	

28.	Network Density Based Analysis of Manet Routing Protocol	Rupali Gupta	11191050	-do-	
29.	Energy Efficiency Based Analysis of Routing Protocols in Mobile Adhoc networks	Parual Aggarwal	11291014	-do-	
30.	Study and implememtation of Adaptive Web interfaces	Yadwinder Singh	11291008	-do-	
31	Automation Testing Using Enhancement Of Selenium IDE	Gundeep Kaur	11391007	-do-	Er Gaurav Gupta

Research Publications in Journals:

1) Himanshu & Goyal D.P. "Strategic Alignment of Business and Information Technology in Indian Petroleum Sector Organizations" in International Journal of Indian Culture and Business Management, Vol. 2, No. 2,pp.144-160,2009 – InderScience Publication.[ISSN: 1753-0814 (online), 1753-0806 (Print)].

2) Aggarwal Rinkle, Kaur Lakhwinder & Aggarwal Himanshu, "Design and Reliability analysis of a new fault-tolerant Multistage Interconnection Network" in International Congress for global Science and technology (ICGST)- Computer Network And Internet Security (CNIR),Vol. 8, No. 2, January 2009, pp. 17-23.], ISSN: AIML 1687-1846, Print: 1687-1854, CD-ROM: 1687-4862.

3) Maini Raman & Aggarwal Himanshu , "Study and Comparison of Various Image Edge Detection Techniques" in International Journal of Image Processing, Vol. 3, No. 1, pp.1-11, February, 2009ISSN: 1985-2304.

4) Aggarwal Himanshu, "Contemporary Research Issues in Business-IT Alignment" in Global Journal of Enterprise Information System, Vol. 1, Jan-June, 2009, pp. 78-86. Electronic eISSN No. 0975-1432 / Print Format ISSN No. 0975-153X,

5) Aggarwal Rinkle, Kaur Lakhwinder & Aggarwal Himanshu, "Reliability Analysis of Fault-Tolerant Irregular Multi-Stage Interconnection Networks" in International Journal of Applied Engineering Research June, 2009, Vol. 4, No. 6, pp. 955-962., ISSN 0973-4562, Online ISSN 1087-1090.

6) Gupta Gaurav & Aggarwal Himanshu, "Digital image Watermarking using Two Dimensional Discrete Wavelet Transform, Discrete Cosine Transform and Fast Fourier Transform" in International Journal of Recent Trends in Engineering(Computer Science), Vol. 1, No. 1, June 2009, pp. 616-618. ISSN: 1797-9617.

7) Kumar Sushil, Aggarwal Himanshu, Kaur Upinder & Sumati, "E-Governance and Data Mining: A Methodology for E-voting" in International Journal of Information Technology and Knowledge Management, Vol. 2, No.1, January-June, 2009, pp.139-144, ISSN: 0973-4414.

8) Singla Kumar Sushil & Aggarwal Himanshu, "Significant E-Governance Projects in Indian States" in International Journal of Recent Trends in Engineering, Vol.2, No,4, November,2009, pp.39-43. ISSN: 1797-9617.

9) Dhindsa Kanwalvir Singh & Aggarwal Himanshu, "Mobile Commerce: Standards and Design Technologies" in International Journal of Recent Trends in Engineering, Vol.2, No,4, November,2009, pp.92-96. ISSN: 1797-9617.

10) Maini Raman & Aggarwal Himanshu, "Performance Evaluation of various speckle Noise Reduction Filters on Medical images" in International Journal of Recent Trends in Engineering, Vol.2, No,4, November,2009,pp.22-26. ISSN: 1797-9617.

11) Dhindsa S. Kanwalvir, Singh Parminder & Aggarwal Himanshu, "Performance of TCP/IP over Wireless Networks using Unaware Approach" in International Journal of Computer and Network Security, Vol. 2, No.1,January,2010,pp. 1-5. ISSN Print: 2076-2739 ISSN Online: 2076-9199

12) Maini Raman & Aggarwal Himanshu, "Analyzing Roberts Edge detector for Digital Images Corrupted with Noise" in International Journal of Computer and Network

Security, Vol. 2, No.1, January,2010,pp.35-40. ISSN Print: 2076-2739 ISSN Online: 2076-9199

13) Aggarwal Himanshu, Kaur Kamaljit, Dhindsa S. Kanwalvir & Singh Ghanaya, "Numeric to Numeric Encryption of Databases: Comparison of standard Encryption and 3Dec Algorithms" International Journal of Computer and Network Security, Vol. 2, No.1, January,2010, pp.103-107. ISSN Print: 2076-2739 ISSN Online: 2076-9199

14) Maini Raman & Aggarwal Himanshu "A Novel Technique for Speckle Noise Reduction on Medical Images" in International Journal in Applied Engineering Research, Vol. 5, No.1, January, 2010, pp. 1-8. Print ISSN 0973-4562; Online ISSN 1087—1090.

15) Maini Raman & Aggarwal Himanshu "A Comprehensive Review of Image Enhancement Techniques" in Journal of Computing, Volume 2, Issue 3,March 2010, pp.8-13. ISSN: 2151-9617.

16) Aggarwal Himanshu,"Critical Success Factors in IT Alignment in Public Sector Petroleum Industry of India", International Journal of Innovation, Management and Technology, Vol. 1,No.1 , April 2010, pp. 56-63. ISSN:2010-0148.

17) Aggarwal Himanshu "Enablers and Inhibitors of Alignment in Indian Petroleum Industry" in International Journal of Computational Intelligence Research, Vol.6,No.2, 2010, pp.171-184. Print ISSN: 0973-1873, Online ISSN: 0974-1259,

18) Kaur Bikrampal & Aggarwal Himanshu,"Artificial Neural Network based Diagnostic Model for the causes of Failures" in International Journal of Computer Science and Information Security, Vol. 8, No.1,2010 pp. 99-05. ISSN:1947-5500, .

19) Aggarwal Rinkle, Kaur Lakhwinder & Aggarwal Himanshu,"Multistage Interconnection networks: A Transition from Electronic to Optical " in Journal of Emerging Technologies and Web Intelligence, Vol2, No. 2, May 2010, pp.142-147. ISSN : 1798-0461,

20) Kaur Bikrampal & Aggarwal Himanshu "Evaluation of Failure of Information System due to Human Resource (HR) Factors using Nuero Computing Approach" , PCTE Journal of Computer Sciences, Vol.7, No.1, pp. 50-63, January-June,2010 [ISSN: 0973-4058].

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21) Aggarwal Himanshu, Seth Ashish & Singla R. Ashim,"Issues of Service Oriented Architecture-A Survey" in Oriental Journal of Computer Science and Technology, Vol. 3, No. 1, 2010, pp. 37-43,[ISSN : 0974-6471}(Impact Factor= 0.819 GISI Index).

22) Ashima & Aggarwal Himanshu, "Multidimensionality in Agile Software Development" in International Journal of Computer Science and Information Security, Vol. 8, No. 8, November 2010,pp. 234-238.

23) Aggarwal Himanshu, "Essence of Software Process Re-engineering in SME's : Towards Process Customization and Automation", Global Journal of Enterprise information Systems, Vol. 2, No. 2, July-Dec, 2010, pp. 92-103.[eISSN: 0975-1432, Print ISSN:0975-153X].

24) Dhindsa S. Kanwalvir & Aggarwal Himanshu, Modelling and Designing Land Record Information System using Unified Modelling Language, International Journal of Advanced Computer Science and Applications, Vol. 2, No.2, February, 2011, pp. 26-30. [ISSN:2156-6770(Online), 2158-107X (Print)].(Impact Factor 1.324)

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26) Kaur Navneet & Aggarwal Himanshu, Spatial Mining, Research Cell: An International Journal of Engineering Sciences, An International. Journal of Engineering Sciences, Special Issue of RACS'11, pp. 19-25. [ISSN: 2229-0913].

27) Kaur Navneet & Aggarwal Himanshu, An Overview of Data Mining Techniques, Research Cell: An International Journal of Engineering Sciences Special Issue of RACS'11, pp. 300-311. [ISSN: 2229-0913].

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29) Kaur Bikram Pal & Aggarwal Himanshu, Failure Model of Peopleware Factors: A Neuro-Computing Approach, International Journal of Management, IT and Engineering, Vol.1, No.2, July, 2011, pp.28-43. [ISSN: 2249-0558]

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32) Singla, K. Sushil & Aggarwal Himanshu , Combating Corruption Through E-Governance in Public Service Delivery System, Journal of Global Research in Computer Science Vol. 2, No.7,July,2011,pp. 96-100.[ISSN: 2229-371X]

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35) Seth Ashish, Aggarwal Himanshu & Singla R. Ashim, Designing a SOA based Model, ACM SIGSOFT Software Engineering Notes, Vol. 36, No. 5, September 2011,pp.1-7,ISSN:0163-5948 (Scopus Indexed).

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37) Garg Pranab, Aggarwal Himanshu & Garg Karan, "Overview of ERP" ,International Journal of Computer Science and Technology, Vol. 2, No.3, September 2011, pp 19-21.[ISSN: 0976-8491 (online), 2229-4333 (Print)]

38) Kaur Navjot & Aggarwal Himanshu, Survey of various Techniques for the WebUsage Mining, Research Cell: An International Journal of Engineering Sciences Vol. 5, December 2011, pp.246-269.[ISSN: 2249-3905].

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39) Gupta Gaurav & Aggarwal Himanshu, An Efficient New Strategy to Define Clustering Algorithm, International Journal of Research in Engineering and Applied Sciences, Vol.2, No.2, February 2012, pp. 561-568. [ISSN: 2249-3905].

40) Dhindsa S. Kanwalvir & Aggarwal Himanshu , .Showcasing the Modeling approach: An Unified Development for Land Record Information System , International Journal of Research in Engineering & Applied Sciences, Vol.2, No.2, February 2012, pp.453-465.[ISSN: 2249-3905].

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42) Ashima & Aggarwal Himanshu, Identification of Effective Key Processes in Software Process Improvement Models for SME's, International Journal of Research in Engineering & Applied Sciences, Vol.2, No.2,, February 2012,pp.1269-1281.[ISSN: 2249-3905].

43) Singla K. Sushil & Aggarwal Himanshu, E-Governance Framework for Effective Implementation of SUWIDHA in the State of Punjab, International Journal of Research in IT and Management, Vol. 2, No.2, February 2012, pp. 175-184. [ISSN: 2231-4334].

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45) Singla K. Sushil & Aggarwal Himanshu, Impact and Scope of E-Governance Initiatives in State of Punjab, International Journal of Computer Applications Vol. 44, No.14,April 2012 pp. 5-9.[ISSN: 0975-8887] (Impact Factor = 0.821)

46) Kaur Bikram Pal & Aggarwal Himanshu, Implementation Failures of an Information System: A Neuro Computing Approach, International Journal of Computer Applications Vol. 58, No.21, November 2012 , pp.26-33.[ISSN: 0975-8887] (Impact Factor = 0.821)

47) Kaur Bikram Pal & Aggarwal Himanshu, Empirical study on Obstacles in Information System Success, Global Journal of Enterprise information Systems Vol. 4, No. 2, July-Dec, 2012, pp. 24-34.[ISSN: 0975-1432 (online),0975-153X(Print)].

48) Gupta Gaurav & Aggarwal Himanshu, Improving Customer Relationship Management Using Data Mining, International Journal of Machine Learning and Computing Vol. 2, No.6, December 2012, pp. 874-877.[2010-3700]

49) Seth Ashish, Aggarwal Himanshu & Signla R. Ashim, Unified Modeling Language for Describing Business Value Chain Activities, International Conference on Advances in Computer Applications (ICACA) 2012 Proceedings published by International Journal of Computer Applications (IJCA),pp. 17-22.[0975 – 8887] (Impact Factor = 0.821)

50) Kaur Bikram Pal & Aggarwal Himanshu, Exploration of Success Factors of Information System, International Journal of Computer Science Issues (IJCSI) Vol. 10, Issue1, No.2, January 2013, pp. 226-235.{ISSN: 1694-0773 (Print),1694-0814(Online)].(Impact Factor = 0.242)

51) Anand Anjali & Aggarwal Himanshu, Detection of Selfish and Malicious nodes In Mobile Adhoc Networks: A Survey, International Journal of Advanced Computing (IJAC) Vol. 5, No.1,January 2013, pp. 1-8. [ISSN: 0975-7686].

52) Kaur Bikram Pal & Aggarwal Himanshu, Critical Failure Factors in Information Systems: An Exploratory Review in Journal of Global Research in Computer Science, Vol. 4, No1, January 2013,pp.76-82.[ISSN: 2229-371X].

53) Dhindsa S. Kanwalvir & Aggarwal Himanshu, Critical Factors in Consumers Perception towards Mobile Commerce in E-Governance Implementation: An Indian Perspective, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 2, No.3, February, 2013, pp. 513-520.[ISSN : 2249-8958].

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and Applications, Vol. 6, 2013,pp. 221-228. .[ISSN Print: 1945-3116 ISSN Online: 1945-3124]

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58) Kaur Bikram Pal & Aggarwal Himanshu, Evaluation model of Information System in Indian Telecommunication Industry, International Journal of Advanced Computing (IJAC), Vol.5, No. 2, pp.45-53. [0975-7686]

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Computing, Information and Control (IJICIC), Vol. 10, No. 3, June 2014, pp.1111-1120.{ISSN: 1349-4198].(Impact Factor 2.93).[ISSN 1349-4198]

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71) Singh K. & Aggarwal H., A Model of Mobile Commerce Practices in the State of Punjab : An Empirical Investigation, International Journal of Indian Culture and Business Management- InderScience Publication,Vol. 10, No. 4, 2015,pp. 494-520. [ISSN: 1753-0814 (online), 1753-0806 (Print)].

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