

Dr Preeti Aggarwal

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DOB 30th June'1979

Marital Status Married

Education

Examination	Year	Univ./ Board	Percentage Marks	Merit/ Award
10 th	1994	Punjab School Education Board	78.8%	Awarded with National Scholarship Scheme
10+2	1996	CBSE	78.4%	3 rd in School
B.Tech	2000	PTU, Jalandhar	75.5%	9 th in University
M.E	2006	PEC, Deemed University, Chandigarh	72%	-
PhD	2014	Panjab University, Chandigarh	-	

Experience

Institute/Organization	Designation	Duration
SUS Engg, College, Tangori	Lecturer	Aug'2000-Oct'2000
LogicSoft Int. Pvt. Ltd, New Delhi	Programmer	Nov'2000-Nov'2001
Punjab Engineering College, Chandigarh	Lecturer	Jan'2002-Aug'2006
UIET, Panjab University	Assistant Professor	Sept'2006-Till Now

PhD Thesis Title: Semantic and Content- based Medical Image Retrieval for Cancer Diagnosis under the guidance of Prof. Renu Vig, UIET, Panjab University, Chandigarh and Dr H K Sardana, CSIO, Chandigarh

Publications

A. Published Papers in Journals/Full papers in Conference Proceedings

S.N	Title	Authors	Journal/ Conference Proceedings with details	ISSN/ ISBN No.
1	Lung cancer detection using fusion of medical knowledge and content based image retrieval for LIDC dataset	Preeti Aggarwal, Renu Vig, HK Sardana	Journal of Medical Imaging and Health Informatics, American Scientific Publishers, 2016; 6(2), 297-311	2156-7018

2	Content Based Image Retrieval Approach in Creating an Effective Feature Index for Lung Nodule Detection with the Inclusion of Expert Knowledge and Proven Pathology	Preeti Aggarwal, HK Sardana, Renu Vig	Current Medical Imaging Reviews: Bentham Science Publishers , 2014;10(3), 178-204, IF= 1.06	1875-6603
3	Classification of Annotated Pulmonary Nodules with Pathologically Confirmed Malignant, Benign and Metastasis Cases	Preeti Aggarwal, HK Sardana, Renu Vig	Int. Journal of Imaging and Robotics. Ceser Publications, 2014; 12(1);22-38	2231-525X
4	Patient-Wise Versus Nodule-Wise Classification of Annotated Pulmonary Nodules using Pathologically Confirmed Cases	Preeti Aggarwal, Renu Vig, HK Sardana	Journal of Computers (JCP) by Academic Publishers,2013; 8(9);2245-2255	ISSN 1796-203X
5	Comparison of segmentation tools for multiple modalities in medical imaging	Sonali Bhadoria, Preeti Aggarwal, CG Dethé, Renu Vig	Journal of Advances in Information Technology, Academy Publishers,2012; 3(4);197-205	1798-2340
6	Comparison of Color, Texture and ICM Features in CBIR System	Sonali Bhadoria, Meenakshi Madugunki, CG Dethé, Preeti Aggarwal	Advanced Materials Research, Trans Tech Publications, Switzerland, 2012; vol 403-408;13-19	1662-8985
7	Role of Segmentation in Medical Imaging: A Comparative Study	Preeti Aggarwal, Renu Vig, Sonali Bhadoria, CG Dethé	International Journal of Computer Applications, September 2011; 29(1); 54-61	0975 – 8887
8	Content Based Medical Image Retrieval: Theory, Gaps and Future Directions	Preeti Aggarwal, HK Sardana, Gagandeep Jindal	ICGST-GVIP Journal, April 2009; 9(2);27-27	1687-398X
9	Semantic and Content-Based Medical Image Retrieval for Lung Cancer Diagnosis with the Inclusion of Expert Knowledge and Proven Pathology	Preeti Aggarwal, Renu Vig, HK Sardana	2013 IEEE Second International Conference on Image Information Processing (ICIIP-2013); IEEE Explorer; 346-351	ISBN: 978-1-4673-6099-9
10	Performance Evaluation of Different Query Sets on Expanded Diagnosed Dataset Using Content Based Image Retrieval in the Detection of Lung Nodules for Lung Cancer Diagnosis	Preeti Aggarwal, Renu Vig, HK Sardana	International Conference of Image Processing and Computer Vision (IPCV'2013) by Elsevier	0893-6080
11	Content-Based Medical Image Retrieval Using Patient's Semantics with Proven Pathology for Lung Cancer Diagnosis	Preeti Aggarwal, HK Sardana, Renu Vig	International Conference on Recent Trends in Information, Telecommunication and Computing (ITC-2013) by IEEE Xplorer; 345-351	ISBN: 978-1-84919-842-4
12	Largest Versus Smallest Nodules Marked by Different Radiologists in	Preeti Aggarwal, Renu Vig, HK Sardana	IAENG International Conference on Imaging Engineering (ICIE'13),2013; vol	2078-0966 ISBN: 978-988-19251-8-3

	Chest CT Scan for Lung Cancer Detection		1;462-466	
13	Enhancements in Medicine by Integrating Content Based Image Retrieval in Computer-aided Diagnosis	Preeti Aggarwal, HK Sardana	Second International Conference on Digital Image Processing, Kamaruzaman, Singapore'2010; vol 75461X	75461X
14	An Efficient Visualization and Segmentation of Lung CT Scan Images for Early Diagnosis of Cancer	Preeti Aggarwal, HK Sardana, Renu Vig	National Conference on Computational Instrumentation, NCCI 2010; 100-104	-
15	Generation of Image Signatures for Image Retrieval	Preeti Aggarwal	International Conference on Information Systems, Technology, and Management,2007	ISBN: 8184241828 9788184241822
16	Implementing ICM Algorithm for Generating Image Signatures using Feed-Forward Back-Propagation Model	Preeti Aggarwal, Mandeep Kaur	National Conference on Emerging Trends in Wireless Communication & E-Security,2007	-

B. Books, Chapters in books, other than refereed journal articles.

S. N.	Title	Type of book (text/reference)	ISSN/ISBN No. and publisher	Authors
1	Correlation between Biopsy Confirmed Cases and Radiologist's Annotations in the Detection of Lung Nodules by Expanding the Diagnostic Database Using Content Based Image Retrieval	Computer Analysis of Images and Patterns; Springer, Lecture Notes in Computer Science (LNCS),2013; vol 8047, 531-538	ISBN: 978-3-642-40260-9, Springer	Preeti Aggarwal, HK Sardana, Renu Vig

Seminars/ Short Term Courses/ Workshops/ Symposiums Attended

S.N.	Programme	Duration	Organized by
1.	Optical Communications- Emerging Trends It's Role and Tech. Appreciation	31 st March-11 th April'2003	PEC, Chandigarh, Sponsored by AICTE and ISTE
2.	Advances in Frontier Technologies	27 th March'2008	UIET, Panjab University, Chandigarh
3.	Microsoft.NET	30 th Jan'2009-01 st Feb'2009	Microsoft & UIET, Panjab University, Chandigarh
4.	MATLAB & Simulink for	20 th April'2010	Mathworks India

	Engineering Education		
5.	Symposium on Image processing and Clinical Applications	16 th -17 th July'2010	UIET, Panjab University, Chandigarh
6.	Chascon-2011	26 th -28 th Feb'2011	Panjab University, Chandigarh
7.	Regional Level One Day Workshop	18 th July'2012	UIET, Panjab University, Chandigarh
8.	Teaching & Soft Skills	26 th -29 th Dec'2012	UIET, Panjab University, Chandigarh
9.	Business Intelligence & Cloud Computing	9 th Jan'2013	UIET, Panjab University, Chandigarh
10.	Advanced Engineering Optimization Techniques and Their Applications in Research	21 st -25 th Jan'2013	UIET, Panjab University, Chandigarh
11.	Achieving Excellence in Technical Education	16 th -19 th July'2013	Panjab University, Chandigarh
12.	International Conference on RAECS-2014	6 th -8 th March '2014	UIET, Panjab University, Chandigarh
13.	Pedagogy for Effective use of ICT in Engineering Education, ISTE Workshop (MHRD)	12 th June – 2 nd Aug' 2014	IIT Bombay and UIET under QEEE
14.	UGC Sponsored Orientation Programme	9 th Dec – 5 th Jan' 2016	Panjab University
15.	UGC Sponsored Refresher Course	30 th Apr- 20 th May '2016	Panjab University
16.	Faculty Development Program on Effective Teaching by TEQIP-II	9 th – 14 th Jan'2017	UIET, Panjab University, Chandigarh
17.	Chandigarh Science Congress (CHASCON) 2017	9 th - 11 th Mar'2017	Panjab University, Chandigarh

Awards

1. Awarded with 'Best Girl' in 10th.
2. Awarded with National Scholarship Scheme in 1994.
3. 9th in university (PTU, Jalandhar) in B.Tech (1996-2000)
4. Certificate of Appreciation by Punjab Engineering College, Chandigarh for organizing two days National Symposium on 'Emerging Trends in Networking and Mobile Communication' in 2003.

5. Certificate of Appreciation by UIET, Panjab University for organizing two days National Conference on ‘Emerging Trends in Wireless Communication and E-Security’ in 2007.
6. Certificate of Appreciation by UIET, Panjab University for organizing two days National Symposium on ‘Image Processing Analysis and Clinical Applications’ in 2010.
7. Research publication award in 2015 by Panjab University, Chandigarh.
8. Certificate of Appreciation by UIET, Panjab University as a Member (Publication Committee) in organizing the 2nd International Conference on RAECS’2015.
9. Certificate of Appreciation by UIET, Panjab University for organizing one week TEQIP Sponsored workshop on ‘Image Processing and Machine Learning for Pattern Recognition’ in 2016.

Research Guidance

1. Guided two M.E students in session 2016-2017.
2. Guiding two M.E students in session 2017-18.
3. Guiding two PhD students enrolled in July’2016.
4. Mentor of three B.Tech students for summer training of 4 weeks (June –July-2017). Working in the Energy Harvesting subtheme of Design Innovative Center (DIC), MHRD project.

Preeti Aggarwal
Signature