

# Yadavindra College of Engineering

Punjabi University Patiala South Campus

Talwandi Sabo (Damdama Sahib)

## FACULTY PROFILE

<b>Name</b>	Seema Baghla	
<b>Designation</b>	Assistant Professor (Computer Engg.)	
<b>Department/Section/Subject</b>	Computer Science and Engineering	
<b>Official Address</b>	Yadavindra College of Engineering, Punjabi University Patiala South Campus, Talwandi Sabo (Distt. Bathinda) Punjab India - 151302	
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## ACADEMIC QUALIFICATIONS

Degree	Degree Name	University	
Post-Graduation	M.Tech. (CE)	Punjabi University Patiala (Pb)	
Graduation	B.Tech. (CSE)	Punjab Technical University, Jalandhar (Pb)	
Any other	Diploma in CSE	PSBTE & IT, Chandigarh	
<b>Thrust Areas</b>	Data Mining, Machine Learning, Optimization		
<b>Subjects Taught</b>	DWDM, RM, DMW, CG, SPM, BI, DBMS, APL,		
<b>Total Experience (Years)</b>	Approx. 16	<b>Teaching Experience</b>	Approx. 16
<b>Administrative/ Academic Duties performed.</b>	Coordinator IQAC YCoE, Incharge M.Tech. CSE, Member IPR Club, Member Admission Committee, Member Time Table Committee, Supdt. Exams, Deputy Supdt Exams, Class Counselor, Lab Incharge		

Link to Google Scholar ID, Citation Index, h-Index, i10-index	<a href="https://scholar.google.com/citations?user=jm6B3WwAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=jm6B3WwAAAAJ&amp;hl=en</a>		
PG Thesis guided	<b>67</b>	PG Thesis Ongoing	<b>01</b>
Papers in International Journals	<b>65</b>	Book Chapters	<b>02</b>
Papers in International Conferences	<b>08</b>	Papers in National Conferences	<b>07</b>
International Conferences Attended	<b>05</b>	National Conferences Attended	<b>02</b>
Total National Workshops/ Seminars/ STCs/ FDPs attended	<b>13</b>	National Webinars Organized	<b>02</b>

## List of Publications

Journal Publications							
Sr	Title	Journal/Conference/ Book/Publisher	Vol .	No.	Pages	ISBN	Year
1	Prediction of Indian Stock Market Using Support Vector Regression	Wesleyan Journal of Research	13	72	26-37	09751386	2021
2	Sentiment Analysis of Twitter Data Using Term Frequency, Inverse Document Frequency and Machine Learning Classifiers	Wesleyan Journal of Research	13	72	61-72	09751386	2021
3	An Improved Technique For Sclera Image Enhancement	International Journal of Advanced Science and Technology	29	10S	8670-8677	22076360	2020
4	Plant Disease Detection using Neural Network	International Journal of Advanced Science and Technology	29	10S	8678-8686	22076360	2020
5	Pre-processing of E-Commerce Data for Customer Churn Prediction using Data Mining	Journal of Xidian University	14	10	463-470	10012400	2020
6	A Critical Examination of Different Models for Customer Churn Prediction using Data Mining	International Journal of Engineering and Advanced Technology	8	6S3	850-854	22498958	2019
7	Harnessing supremacy of big data using Hadoop for healthy human survival making use of bioinformatics	International Journal of Advanced Technology and Engineering Exploration	5	48	460-466	23947454	2018
8	Opinion mining approach to evaluate and predict the television rating point of serials	International Journal of Management, IT and Engineering	8	12	67-76	22490558	2018
9	Sentiment Analysis of English Tweets Using Data Mining	International Journal of Computer Sciences and Engineering	6	10	276-284	23472693	2018
10	Analytic Implementation of Big Data in Cricket using Hadoop Framework	International Journal of Research in Advent Technology	6	10	2869-2873	23219637	2018
11	Speech Recognition using Cross Correlation Algorithm Intended for Noise Reduction	Asian Journal of Computer Science and Technology	7	3	48-52	22490701	2018
12	Data Mining Approach in Retail Knowledge Discovery and Internet Technologies	Asian Journal of Engineering and Applied Technology	7	2	100-105	2249068X	2018
13	Identification of defected area of plant leaves	International Journal of Current Engineering and Scientific Research	5	1	26-29	23940697	2018
14	A hybrid probability based technique for efficient object tracking from videos	International Journal of Computational Intelligence Research	13	5	653-662	09731873	2017
15	Enhancement of Sift algorithm to check authenticity of Indian Currency	International Journal of Computational Intelligence Research	13	5	945-953	09731873	2017
16	An Improved Technique for Automatic Haziness Removal for Enhancement of Intelligent Transportation System	Advances in Computational Sciences and Technology	10	5	965-976	09736107	2017
17	Human Face detection and tracking using skin color combined with optical flow based segmentation	Advances in Computational Sciences and Technology	10	5	1123-1127	09736107	2017

18	Modified decision table classifier by using decision support and confidence in online shopping dataset	International Journal of Computer Engineering & Technology	8	6	83-88	09766375	2017
19	Evaluation and improvement of incremental DBSCAN using back propagation algorithm in data mining	International Journal for Multidisciplinary Engineering and Business Management	5	4	16-18	23482249	2017
20	Improved K-mean clustering for soil behavior and prediction of crop using back propagation	International Journal for Multidisciplinary Engineering and Business Management	5	4	12-15	23482249	2017
21	A review on probability based techniques for efficient object tracking from videos	Research Cell : An International Journal of Engineering Sciences	18	7	79-86	23200332	2016
22	Enhancement of ZH algorithm to improve thinning rate: A review	Research Cell : An International Journal of Engineering Sciences	18	7	53-58	23200332	2016
23	Image inpainting of digital images using joint statistical modeling technique	International Journal of Industrial Electronics and Electrical Engineering	4	2	61-64	23476982	2016
24	A novel approach for watermarking of digital images using Fourier coefficient, DWT and DES	International Journal of Advances in Computer Science and Cloud Computing	4	1	1-5	23214058	2016
25	A hybrid approach to detect and correct a skew in scanned document images using fast Fourier transform and nearest neighbor algorithm	International Journal of Advances in Electronics and Computer Science	3	5	1-6	23932835	2016
26	Audio Noise Reduction using discrete wavelet transform and filters	International Journal of Advanced Research in Computer Science & Technology	4	2	165-168	23478446	2016
27	Character segmentation techniques for handwritten offline cursive words	International Journal of Advanced Research in Computer Science & Technology	4	2	172-176	23478446	2016
28	Improved adaptive gamma correction technique on gray scale images using image enhancement	International Journal of Advanced Computational Engineering and Networking	4	4	55-59	23202106	2016
29	Detection and removal of hand-drawn annotation lines in scanned image	International Journal of Advanced Computational Engineering and Networking	4	5	1-4	23202106	2016
30	A Review on Watermarking of Digital Images	International Journal of Advances in Science Engineering and Technology	3	3	149-153	23219009	2015
31	A review on object removal using Exemplar based image Impainting technique	International Journal of Engineering Sciences & Research Technology	4	6	472-475	22779655	2015
32	Comparison of SVM and K-NN classifiers for recognizing degraded printed Gurmukhi numerals	International Journal of Advanced Computational Engineering and Networking	3	2	44-48	23212063	2015
33	A review: Audio noise reduction and various techniques	International Journal of Advances in Science Engineering and Technology	3	3	132-135	23219009	2015
34	Study of various character segmentation techniques for handwritten off-line cursive words: A review	International Journal of Advances in Science Engineering and Technology	3	3	154-158	23219009	2015

35	A review: Detection and removal of handwritten annotation lines	International Journal of Advances in Science Engineering and Technology	3	3	136-140	23219009	2015
36	A review on skew detection and correction in multiscrypt text document images	International Journal of Advances in Science Engineering and Technology	3	3	145-148	23219009	2015
37	A review: Image enhancements and its various techniques	International Journal of Advances in Science Engineering and Technology	3	3	141-145	23219009	2015
38	Wavelet based technique for removal of multiple noises simultaneously	International Journal of Advanced Computational Engineering and Networking	2	1	34-38	23212063	2014
39	Recognition of degraded printed Gurmukhi numerals-A review	International Journal of Computer Sciences and Engineering	2	7	75-78	23472693	2014
40	Performance analysis of VoD over WIMAX by using different modulation techniques by using OPNET	International Journal of Emerging Trends in Engineering and Development	5	4	97-103	22496149	2014
41	A study of different types of attacks on WIMAX networks	International Journal of Advances in Engineering & Scientific Research	1	5	117-127	23493607	2014
42	Performance Analysis of IPTV (VoD) over WIMAX for SC and OFDMA for different modulation techniques	International Journal of Advanced Research in Computer Science and Software Engineering	4	10	829-840	2277128X	2014
43	Simulation of WIMAX system under jamming and jellyfish attack	International Journal of Computer Science & Information Technology	4	10	167-172	09753826	2014
44	Recognition of degraded printed Gurmukhi numerals	International Journal of Engineering Research and Management	1	7	188-194	23492058	2014
45	Automatic road detection of satellite images using improved edge detection	International Journal of Computers and Technology	10	4	1546-1552	22773061	2013
46	Automatic road detection of satellite images—A survey	International Journal of Computer Applications & Information Technology	3	2	32-34	22787720	2013
47	Image deblurring using DCT based fusion techniques: A Survey	International Journal of Computer Applications & Information Technology	3	2	35-38	22787720	2013
48	An edge detection approach based on Wavelets	International Journal of Engineering Research and Technology	2	9	2836-2840	22780181	2013
49	Wavelet thresholding for speckle noise reduction	International Journal of Engineering Research and Technology	2	9	2828-2835	22780181	2013
50	Hybrid approach for English to Punjabi translation system for newspaper headlines in a specific domain	International Journal of Engineering Research and Technology	2	11	1792-1795	22780181	2013
51	Novel Approach for Removal of Gaussian and Salt-n-Pepper Noise Simultaneously	International Journal of Advanced Research in Computer and Communication Engineering	2	7	2714-2717	22781021	2013
52	A secure solution for routing in MANET	International Journal of Management, IT and Engineering	2	10	81-92	22490558	2012
53	A genetic algorithm for regression test sequence optimization	International Journal of Advanced Research in Computer and Communication Engineering	1	7	478-481	22781021	2012

54	Hybrid algorithm with DSA, RSA and MD5 encryption algorithm for wireless devices	International Journal of Engineering Research and Applications	2	5	914-917	22489622	2012
55	Malicious Data Detection in VANET	International Journal of Advanced research in Computer and Communication Engineering	1	7	533-536	22781021	2012
56	Semantic fuzzy Colour Algorithm for Image Retrieval Using Hindi Dialects	International Journal of Advanced Research in Computer and Communication Engineering	1	7	486-493	22781021	2012
57	A secure medical image watermarking technique using no-reference quality metrics	International Journal of Advanced Research in Computer Engineering and Technology	1	8	73-78	22781323	2012
58	Motion Estimation in Video Compression and Soft Computing Techniques.	International Journal of Advanced Research in Computer Science	2	3	491-495	09765697	2011
59	Video compression by memetic algorithm	International Journal of Advanced Computer Science and Applications	2	6	142-145	21565570	2011
60	Region growing Adaptive Contrast Enhancement of Medical MRI Images	Journal of Global Research in Computer Science	2	7	93-95	2229371X	2011
61	Renewed approach for image rectification	Journal of Global Research in Computer Science	2	7	106-110	2229371X	2011
62	Region Based Contrast Limited Adaptive HE with Additive Gradient for Contrast Enhancement of Medical Images (MRI)	International Journal of Soft Computing and Engineering	1	4	154-157	22312307	2011
63	A Threshold-Based Method to Detect Selfish Nodes in MANET	CiT International Journal of Wireless Communication	3	11	816-820	0974 9640	2011
64	Cluster Based Security Architecture In Wireless Ad-Hoc Networks: An Overview	Journal of Global Research in Computer Science	2	8	56-59	2229371X	2011
65	Security Concepts in Vehicular Networks: A Review	International Journal of Research in Computer Science	1	-	1-5	22498257	2011

#### Book Chapters

1	Data Mining and E-Banking Security	Green Information and Communication Systems for a Sustainable Future	Chapter-4	73-92	2020	
2	Detection of unhealthy region of plant leaves using KNN and neural network	Wireless Communication and Computing	Chapter-7	54-61	2020	

#### Conferences

1	Study of various Gary scale image contrast enhancement techniques: A Review	International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 2015
2	Novel D3M based approach for performance monitoring in virtual organizations	International Conference on Advanced computing and communication technologies, Panipat, 2014
3	Enhanced clustering technique to improve prediction in meditation data mining	International Conference on Advanced computing and communication technologies, Panipat, 2014
4	A review: IPTV over WiMAX networks	International conference on communication, computing & systems, Punjab, 2014
5	Lookup based Energy Efficient Hybrid Approach for Wireless Sensor Network	Semantic Scholar, Corpus ID:17973545, 2012

6	Plant Diseases Which Can Be Detected with the help of Digital Image Processing	National Conference on Challenges in Emerging Computer Technologies, 2012
7	Detecting Traffic offences using Videography and image processing - A Review	National Conference on Challenges in Emerging Computer Technologies, 2012
8	Methods for Contrast Enhancement of Medical Images: A review	National Conference on Advances in Computational Intelligence, 2011
9	Phoneme Generations for English language	National Conference on Advances in Computational Intelligence, 2011
10	Comparison of Various Crossover Techniques of Genetic Algorithm for Optimum Job Sequencing Based on Minimum Elapsed Time	International Joint Colloquium on Emerging Technologies in Computer Electrical and Mechanical, 2011
11	Estimation of Motion in Video Compression with Algorithms–A Review	National Conference on Latest, Advancement in Science, Engineering Research, 2011
12	OCR based Segmentation of Indian Scripts: A Review	National Conference on Latest, Advancement in Science, Engineering Research, 2011
13	Comparison and Analysis of mobile Adhoc Network Routing Protocols	National Conference on Latest, Advancement in Science, Engineering Research, 2011
14	A new approach image rectification based on pin hole camera	International Conference on FT-Computing and Engineering Applications, 2011
15	A Genetic algorithm for optimum job sequencing based on minimum elapsed time	International Conference on Advanced Computing & Communication Technologies, 2007