

# Curriculum Vitae

**Name:-** Suneeta Agarwal

**Father's Name :-** Late B.P. Agarwal

**Present Postal Address :-** A-10 Staff Colony, M.N.N.I.T., Allahabad – 211004

**Nationality :-** Indian

**Educational Qualifications :-**

S.No	Degree	University	Year
1	Ph.D	I.I.T. Kanpur	1980
2	M.Sc (Maths)	Allahabad University	1975
3	B.Sc	Allahabad University	1973

**Field of Specialization:-**

1. Operations Research
2. Algorithms
3. Theoretical Computer Science
4. Image Processing
5. Graph Theory
6. Audio Processing
7. Genomic Data Processing

**Present Position: -** Professor, Department of Computer Science and Engineering,

MNNIT Allahabad, Prayagraj.

**Total Teaching Experience: -** Over Thirty Eight (39+) Years

**Previous Employments:-**

Sl. No	Post held	Year of Joining	Institute	Total Experience	Salary Drawn
1	HAG	31/05/2019	M.N.N.I.T. Allahabad	-	-
2	Professor	09/06/2006	M.N.N.I.T. Allahabad	13 years 6 months	Rs 65960/- AGP 10500/
3	Associate Professor	25/04/1996	M.N.N.I.T. Allahabad	10 years	Rs 51120/-

4	Assistant Professor	13/08/1980	M.N.N.I.T. Allahabad	16 years	Rs 4000/- (Old Scale)
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### Research Details-

### Ph.D. Supervised:-

Fourteen (14) Completed. Three (03) in Progress

	Name	Year	Title of the Thesis	Institute
1.	Nikam Shankar Bhausheb	2009	Texture- Based Liveness Detection Embedded Fingerprint Biometric Sys-tem Using Curvelets	MNNIT Allahabad
2.	Ashutosh Gupta	2010	Text compression schemes for various state of a airs allowance partial decompression and other operations	MNNIT Allahabad
3.	Sanjai Kumar Gupta	2010	Copyright Protection For Digital Images Through Watermarking	Bundelkhand University, Jhansi
4.	Rajesh Prasad	2012	Improved Algorithms for various string Matching Problems through Bit-Parallelism and other Techniques.	MNNIT Allahabad
5.	Sushila Kamble	2013	Imperceptibility and robustness improvement in digital image watermarking	MNNIT Allahabad
6.	Chintan Mandal	2014	Application of Delaunay Triangulation for Some 2D- Euclidean Geometric Graph Problems in the Online and Ki- netic Environment	MNNIT Allahabad
7.	Hitendra Garg	2014	Watermarking in 3D polygon mesh objects	MNNIT Allahabad
8.	Vikas Maheshkar	2014	Face Recognition using Holistic and Feature Based approaches	MNNIT Allahabad
9.	Anand Prakash	2015	Design and Analysis of Cellular Automata Based Algorithms for	MNNIT Allahabad

	Shukla		Some Image Processing Tasks	
10.	Neelam Bhardwaj	2015	A New Imaging Approach for Automatic Thresholding of Photo Defects	MNNIT Allahabad
11.	Priyanka Singh	2016	Ownership Assertion and Authentication of Images via Watermarking	MNNIT Allahabad
12.	Shivendra Shivani	2016	Novel Advancements in Multiple Dimensions of Visual Cryptography	MNNIT Allahabad
13.	Rajitha B.	2017	Pre-Processing and Segmentation of Hand X-ray Images Suitable for Various Applications.	MNNIT Allahabad
14.	Shambhu Shankar Bharti	2019	Novel Techniques for Security and Enhancement of Audio	MNNIT Allahabad
15.	Manish Gupta	Thesis Submitted	Novel Techniques for Speaker Recognition along with his/her Emotion	MNNIT Allahabad
16.	Sanjeev Kumar	Thesis Submitted	Novel Computational Techniques for Compressing and Processing of Genomic Data	MNNIT Allahabad
17.	Divya Srivastava	Open Defense Completed	Image Classification & Retrieval Based on Various Texture Features	MNNIT Allahabad

**M.Tech. Thesis Supervised (103):-**

Sl. No	Title	Name	Year
1.	Broadcasting in Trees	R.Suchit Yadav	1993
2.	Broadcasting in General Trees	C.Vinood D'Souza	1994
3.	A Knowledge Based System to Recognize Confusing Handwritten Numerals	G.V.R.Sharma	1994
4.	Wafer Packing Problems	Km.U.Sailaja	1995
5.	Amsqueeze: An Archiving Package	Km. Arpita Mishra	1995
6.	A faster Algorithm for multiple Error Spelling	G.V.R.Sharma	1997

	Correction		
7.	OnLine Signature Verification System	V.Brahma Naidu	1998
8.	Fuzzy Logic Based Numeral Recognition	Chaudhri Pd. Pandit	1999
9.	Online signature Verification Based on Effective Global and Local Feature Extraction and its Experimentation on Linguistic Signatures	C.V.Suresh Babu	1999
10.	Implementation of Fuzzy Grammar Using Recur rent Neural Networks	Kanishka Sarkar	2000
11.	Fingerprint Matching	Yashpal Singh	2000
12.	Fast Fingerprint Verification Through Minutiae Extraction Using Moving Window Algorithm	Sanjai Kumar Gupta	2001
13.	Compression Using Encryption	Ashutosh Gupta	2001
14.	Handwritten Character Recognition Using Ring Data Vector	Ravindra Kr. Purwar	2001
15.	Morphological Analysis on Images	Phoolan Kumar	2002
16.	On Line Character Recognition	Km.Garima Gupta	2002
17.	Speech Recognition	Sashi Kant Verma	2002
18.	Shortest path using Neural network	K. Ganesh	2003
19.	On line Hindi Character Recognition	Ashish Mahendru	2003
20.	Genetic Algorithm Approach for facility layout problem	Venkat Rao	2003
21.	Face Detection Using Neural Networks and Support Vector machine	Ramanarasimha	2003
22.	Programmable, Low cost Interactive Voice response System	M. Inamullah	2004
23.	Frontal View Face Detection	Aditi Gupta	2004
24.	Handwritten English Character Recognition based on Moments	Km. Vibha	2004
25.	Genetic and Memetic Algorithms for VLSI circuit Partitioning	Venkat Rao	2004
26.	On Line signature verification system using Dynamic feature extraction method	Upendra Singh	2005
27.	Smoothing an image with circular Gaussian Filter	K.K.Misra	2005
28.	Template based rotation invariant digital image watermarking	Parmnand Singh	2005
29.	Improvement over LZW for better Text Compression	Kakoli Banerjee	2005

	and retrieval		
30.	Integration of Markov Model and Neural Networks for speech recognition	Ajeet singh	2005
31.	Character recognition using elastic dynamic matching	Vikash	2005
32.	Study of Multiple String matching Algorithms Based on Shift or Algorithm	Rajesh Prasad	2006
33.	Analysis of Aho Corasick Algorithm for Multiple pattern Matching in Text	Ram Kumar	2006
34.	A reduced form of Human Coding tree representation	Pradeep Kumar Botu	2006
35.	XADAP-An adaptive Huffman coding on Markup languages	Cherukuri Kishore Babu	2007
36.	Anew Arithmetic coding scheme by converting multi symbol alphabet to marry alphabet	Rakesh Apparaju	2007
37.	PPM revisited with escape probability estimation	Azaruddin Sayyed	2007
38.	Image compression using simple arithmetic operations	Sesha Giri Rao	2007
39.	Finger print verification using pores	Nagesh Babu	2007
40.	A Block-based technique for early detection and prevention from propagation of errors in VLC coded data	Upendra Singh Rajpurohit	2008
41.	Finger Print Based Male-Female Classification	Manish Verma	2008
42.	Normalized Cross correlation Based Finger print matching	Deepak Karna	2008
43.	Digital Image Water Marking Based on Discrete Wavelet Transform	Akash Yadav	2009
44.	An Algorithm for subsurface Fire Detection in MODIS Images An improved Accuracy Assessment procedure	Abhishek Jain	2009
45.	ACO to find degree constrained minimum spanning tree (Algorithm)	Praveen kumar	2010
46.	Improved Human Coding method based on number character	Amardeep Singh	2010
47.	Robust Multiple Image Watermarking based on Spread transform	Jaishri Jain	2010
48.	Web GIS based sherries information system in Uttar Pradesh	Vikas Gupta	2010
49.	A new Parallel Algorithm to find out the longest	Amit shukla	2010

	common subsequence from multiple biological sequences		
50.	Greedy Genetic Algorithm to Bounded Knapsack Problem	Sirsiz kayasha	2010
51.	Remedy Action Request System	Reetika patel	2010
52.	Performance Analysis of Linux System using observation Tool	Richa Goyal	2010
53.	Re-optimization for Steiner trees	Subhash Panwar	2010
54.	Online Signature Verification based on Pixel Oriented and Component Oriented Feature Extraction	Swati Srivastava	2011
55.	GIS based Framework for the Management of the PARAG Co-operative Dairy	Sanjay kumar	2011
56.	Efficient Greedy and Dynamic Approach for LCS	Priyanka Gautam	2011
57.	Land Cover Change Detection using Multi-temporal Satellite Data	Priyanka Singh	2011
58.	Protecting Ownership of Digital Images: A New Robust and Blind Watermarking Technique	Amrendra Nath Tripathi	2011
59.	Image Authentication and Recovery using Fragile Watermarking Scheme	Shivendra Shivani	2011
60.	Maintaining Shortest path Tree in Dynamic Diagraphs	Atul Kumar Rai	2011
61.	Sparse Matrix Operations using CSR Formats	Anoop Patel	2011
62.	Rotational Invariant Texture Based Image Indexing Retrieval	Ms Shuchi Srivastava	2011
63.	A New Semi Blind and Invisible Watermarking Scheme for Digital Images	Ms Arpita Srivastava	2011
64.	Improved Shape Matching and Object Recognition Based on Shape Context	Shilpi Srivastava	2011
65.	Computation of Translocation Distance Between Two Genomes	Karunesh Kumar	2011
66.	Genetic Rearrangements by Reversals	Brajesh Kumar Umrao	2011
67.	Comparison of Edge Detection Techniques on Alphanumeric Characters	Rajesh Kumar	2011
68.	Construction of Approximate Minimum spanning tree for kinetic objects in Euclidean 2D-space	Anil Kumar Sahu	2012
69.	On a geometric invariant image watermarking scheme for authentication	Kunal Sain	2012

70.	On creation of shares for visual cryptography	Mradula Sharma	2012
71.	Hand geometry based gender classification	Shubhra Shivani	2012
72.	An approach of face feature extraction and its illumination normalized images for gender classification	Ruchi Goel	2012
73.	On a Face Recognition and Gender Classification System	Priyanka Goel	2012
74.	Phrase matching in (s,c) dense code compressed les	Jagadish Dharanikota	2012
75.	Secure baggage management at airport using 2D barcode	Atul Srivastav	2012
76.	Dynamized Tango tree to solve the dictionary problems	V. S. Anirudha kaki	2012
77.	Data Compression Using Hamming Code	Namita Sharma	2012
78.	Moving Object Detection in Videos Using Back ground Subtraction	Kshitij Kumar	2013
79.	DCT Based Image Authentication and Recovery Using Fragile Watermarking Scheme	Durgesh Singh	2013
80.	Image Protected Shares Generation based on Visual Cryptography and Fragile Watermarking Scheme	Surendra Kumar Raut	2013
81.	A New Dynamic Data Structure For Dictionary With Efficient Insertion And Searching (Variant of the Classified Multisux Trie)	Neha Gupta	2013
82.	Effective vehicle detection for traffic surveillance system	Akanksha Pandey	2013
83.	DCT-SVD And Chaotic Map Based watermarking Scheme for Rightful Ownership Protection	Ankita Kumar	2013
84.	Text Compression using Adaptive Character Word length Algorithm	Kalpana Chaudhary	2013
85.	Enhanced Visual Cryptography Scheme	Gupta Nitin Lax manbhai	2014
86.	Edge Adaptive Image Steganography	Himanki Jain	2014
87.	Halftone Visual Cryptography with Pixel Expansion through Error Diffusion	Prateek Kumar	2014
88.	Histogram Equalization for Contrast Enhancement of both Overexposed and Underexposed Images	Deepika Agaewal	2015
89.	DCT based Static Video Summarization Surveillance	Prachi Singh	2015

	System		
90.	Efficient Read Alignment using Burrows Wheeler Transform and Wavelet Tree	Sanjeev Kumar	2015
91.	Ground and Non-Ground Filtering of Airborne Li-DAR Data	Suchita Yadav	2015
92.	Multiple Object Detection and Motion Tracking in Surveillance System	Nisha Pal	2015
93.	Color Image Segmentation using MST based Approach	Arpita Kumari	2016
94.	Interval Graph and its Applications	Divya Srivastava	2016
95.	Image enciphering using modified AES with secure key transmission	Shahina Anwarul	2016
96.	The pipelined approach for Content-Based Image Retrieval using Texture, Color and Shape	Surbhi Goel	2017
97.	An Efficient Approach for Dynamic PCA filter selection in PCANet for Image Classification	Shivajee Pandey	2017
98.	Grey Level Co-occurrence Matrix and its application in Pattern Recognition	Shruti Singh	2017
99.	Signature Verification System	Avani Rateria	2018
100.	Compression of Biomedical Images using their symmetry	Meenakshi Srivastava	2018
101.	Recognition of handwritten numerals of various Indian regional languages using deep learning	Saumya Chaurasia	2018
102.	Head pose prediction while tracking lost in a Head Mounted Display	Himanshu Rohilla	2019
103.	Content Based Image Retrieval using Image classification based on Convolutional Neural Network	Vibhuti Pratap Singh	2019

#### **Publications :-**

**International Journals [81] [SCI=32, Scopus=12, others=37]**

1. S. Agarwal, P. Sharma, and A. K. Mittal. **“An extension of the edge covering problem. Mathematical Programming”**, vol. 23, pp 353-356, DOI 1982.10.1007/BF01583800 (**SCI**).
2. Sunita Agarwal, A K. Mittal, and P Sharma. **“Constrained optimum communication trees and sensitivity analysis”**. *SIAM J. Comput.*, vol 13, Issue 2, pp 315-328, May 1984 (**SCI**).
3. Arun K. Pujari, Suneeta Agarwal, and V. P. Gulati. **“A note on the constrained shortest-path problem”**. *Naval Research Logistics Quarterly*, vol 31, Issue 1, pp 87-89, 1984 (**SCI**).



4. S. Agarwal, A. Mittal, and P. Sharma. **"A decomposition algorithm for linear relaxation of the weighted r-covering problem"**. *Mathematical Programming*, vol 31, pp 67-77, 1985. (SCI).
5. S. Agarwal and Ashutosh Gupta, **"A fast and efficient compressor for xml data"**, *International Engineering and Technology Journal of Information Systems*, vol 1, pp 74-80, 2007.
6. S. Agarwal and Ashutosh Gupta, **"Evolutionary approach for compressing textual documents"**, *International Journal of Computer Science and Engineering Systems*, vol 2, pp 19-27, 2008.
7. S. Agarwal and Ashutosh Gupta, **"A review on xml compressors and future trends"**. *International Journal of Computer Science and Engineering Systems*, vol 2, pp 227-234, 2008.
8. S. Agarwal and Ashutosh Gupta, **"A scheme that facilitates searching and partial decompression of textual documents"**, *International Journal of Advanced Computer Engineering*, vol 1, pp 99-109, 2008.
9. S. Agarwal and S. Nikam, **"Gabor co-occurrence texture and wavelet based fingerprint matching"**, *International Journal of Automated Identification Technology*, vol 1, pp 31-43, 2008.
10. Suneeta Agarwal. **"A note on solving arithmetic problems using feed-forward neural networks"**. *Neurocomputing*, vol 71(4-6), pp 1101-1102, 2008 (SCI).
11. Ashutosh Gupta and S. Agarwal. **"Browsing compressed collection of semi-structural documents"**. *International Journal of Computer Science and Engineering Systems*, vol 2, pp 29-36, 2008.
12. Shankar Bhausaheb Nikam and Suneeta Agarwal. **"Local binary pattern and wavelet-based spoof fingerprint detection"**. *International Journal of Biometrics*, vol 1, pp 141-159, 01 2008.
13. S. Agarwal and A. Gupta. **"A fast decodable adaptive compression for textual document"**, *International Journal of Information Retrieval*, vol 2, pp 16-30, 2009.
14. S. Agarwal and A. Gupta, **"A fast decodable adaptive compression for textual document"**, *International Journal of Information Retrieval*, vol 2, pp 16-30, 2009
15. S. Agarwal and A. Gupta, **"Retrieving the compressed collection of dynamic document"**, *International Journal of Information Retrieval*, vol 2, pp 1-15, 2009
16. S. Agarwal and Sanjay kumar Gupta, **"Performance analysis of a block complexity based data embedding (abcde) for color images in spatial domain"**, *International Journal of Theoretical and Applied Information Technology (JATIT)*, vol 10, pp 60-66, December 2009.

17. Shankar Bhausaheb Nikam and Suneeta Agarwal, **“Co-occurrence probabilities and wavelet-based spoof fingerprint detection”**, *International Journal of Image Graphics*, vol 9, Issue 2, pp 171-199, 2009.
18. Shankar BhausahebNikam and Suneeta Agarwal, **“Feature fusion using Gabor filters and cooccurrence probabilities for fingerprint antispooing”**, *International Journal Intelligent Systems Technologies and Applications*, vol 7, Issue 3, pp 296-315, July 2009.
19. Shankar BhausahebNikam and Suneeta Agarwal, **“Ridgelet-based fake fingerprint detection”**, *Neurocomputing*, vol 72, Issue 10-12, pp 2491-2506, June 2009 (SCI).
20. Shankar Bhausaheb Nikam and Suneeta Agarwal, **“Wavelet based multi-resolution analysis of ridges for fingerprint liveness detection”**, *International Journal of Information and Computer Security*, vol 3, Issue 1, pp 46, June 2009.
21. S. Agarwal, Abhishek Jain and Dharmendra Singh, **“Selection of region of interest for assessment of classification accuracy in remote sensing data“**, *International Journal of Information Processing*, vol 4, pp 56-63, 2010.
22. S. Agarwal and Sanjai kumar. Gupta, **“Comparison of least significant bit (LSB) insertion in RGB and YCBCR color space”**, *International Journal of Electronics and Computers*, vol 2, pp 45-49, January - June 2010.
23. Ashutosh Gupta and Suneeta Agarwal, **“A fast dynamic compression scheme for natural language texts”**, *Computers and Mathematics with Applications*, vol 60, Issue 12, pp 3139-3151, 2010 (SCI).
24. Ashutosh Gupta and Suneeta Agarwal, **“Partial retrieval of compressed semi-structured documents”**, *International Journal of Computer Applications in Technology*, vol 38, Issue 4, pp 239-249, August 2010.
25. Shankar Nikam and Suneeta Agarwal, **“Curvelet-based fingerprint anti-spoofing”**, *Signal, Image and Video Processing*, vol 4, Issue 1, pp 75-87, 2010. DOI- 10.1007/s11760-008-0098-8 (SCI).
26. Subhash Panwar and Suneeta Agarwal, Article: **“Fast re-optimization of Steiner trees: Changing the edge set”**, *International Journal of Computer Applications*, vol 1, Number 28, pp 22-24, February 2010. Published By Foundation of Computer Science.
27. S. Agarwal, Rajesh Prasad, and Sanjay Misra, **“Efficient bit-parallel multi-patterns approximate string matching algorithms”**, *Scientific Research and Essays (SRE)*, Vol. 6 No. 4, pp 876-881, 18 February, 2011.
28. S. Agarwal, Prasad Rajesh, and Misra Sanjay, **“Parameterized string matching algorithms with application to molecular biology”**, *Nigerian Journal of Technological Research*, 77, 2011.

29. Ashutosh Gupta and Suneeta Agarwal, "**Searching a pattern in compressed dna sequences.** *International Journal of Bioinformatics Research and Applications*", Vol. 7, pp.115-129, 2011.
30. SushilaKamble, VikasMaheshkar, Vinay Kumar Srivastava, and Suneeta Agarwal, "**Multiple watermarking for copyright protection using DWT and dual-tree CWT**", *International Journal of Intelligent Engineering Informatics*, Vol. 1, pp. 348-369, 01 December 2011
31. Shivendra Shivani, Sushila Kamble, Anoop Kumar Patel, and Suneeta Agarwal, "**Image authentication and restoration using block-wise fragile watermarking based on k-medoids clustering approach**", *IJCA Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET)*, No. 14, pp. 44-51, 2011.
32. Hitendra Garg, Suneta Agarwal, "**An Active watermarking of 3D object**", *International Journal Management Development & Information Technology*, vol. 9, pp. 88-93, 2011.
33. S. Agarwal, Vikas Maheshkar, Sushila Kamble, and Vinay Srivastava, "**DCT-based reduced face for face recognition**", *International journal of Information Technology and Knowledge management*, vol. 5, Number 1, pp 97-100, January-June 2012.
34. Vikas Maheshkar, Sushila Kamble, Suneeta Agarwal & Vinay Srivastava, "**Feature image generation using low, mid and high frequency regions for face Recognition**", *International journal of Multimedia & Its Applications (IJMA)*, AIRCC, Vol.4, No.1, pp. 75-82 , February 2012.
35. Suneeta Agarwal and PrakharPanwaria, "**Implementation, analysis and application of retroactive data structures**", *International Journal of Advances in Computer Science and its Application - IJCSIA*, Vol.1, pp.28-33, 25 April 2012.
36. S. Agarwal, SushilaKamble, Maheshkar, and VikasVinay Srivastava, "**DWT-SVD based robust image watermarking using Arnold map**", *International journal of Information Technology and management*, vol. 5, pp.101-105, Jan-June 2012.
37. C. Mandal, A. Sahu, and S. Agarwal, "**Maintaining a minimum spanning tree for kinetic autonomous robots in 2D-euclidean plane**", *Romanion Academy Section For Information Science and Technology*, vol. 15 issue 4, pp. 319-334, 2012 (*SCIE*).
38. R. Prasad, S. Agarwal, S. Mishra, A. K. Sharma, and Alok Singh, "**Maintaining software through bit-parallelism and hashing the parameterized q-grams**", *Tehnički vjesnik-Technical Gazette*, vol. 19 ,issue 2, p.p. 243-247, June 2012 (*SCI*).
39. Hitendra Garg, Suneta Agarwal , "**Double security watermarking algorithm for 3d model using ieee-754 floating point arithmetic**" , *International Journal of Computer Applications* , vol. 46, issue 9 , 2012.
40. Durgesh Singh, Shivendra Shivani, Suneeta Agarwal, "**Quantization-based fragile watermarking using block-wise authentication and pixel-wise recovery scheme for**

- tampered image**", *International Journal of Image and Graphics*, vol. 13, issue 2, p.p. 1340-002, 2013.
41. Neelam Bhardwaj and Suneeta Agarwal, "**A new technique for extracting image information beyond visibility**", *International Journal of Information and Computation Technology*, vol. 3, issue 6, p.p. 539-548, 2013.
  42. Kalpana Chaudhary and Suneeta Agarwal, "**Text compression using adaptive character word length algorithm**", *International Journal of Systems Algorithms & Applications*, vol. 3, p.p. 187-189, May 2013.
  43. Hitendra Garg and Suneeta Agarwal, "**A secure image based watermarking for 3d polygon mesh**", *Romanian Journal of Information Science and Technology*, vol. 16, issue 4, p.p. 287-303, 2013 (*SCIE*).
  44. Kshitij Kumar and Suneeta Agarwal, "**An efficient hierarchical approach for background subtraction and shadow removal using adaptive GMM and color discrimination**", *International Journal of Computer Applications*, vol. 75, issue 12, August 2013.
  45. Priyanka Singh and Suneeta Agarwal, "**A visual cryptography based watermarking scheme incorporating the concepts of homogeneity analysis and singular value decomposition**", *International Journal of Computer Application*, 80(16), 2013.
  46. Shivendra Shivani, Surendra K. Raut, Durgesh Singh and Suneeta Agarwal, "**Hybrid approach for image protected shares based on visual cryptography and fragile watermarking scheme**", *International Journal of Information and Computation Technology*, vol. 3, issue 9, p.p. 893-900, 2013.
  47. Neelam Bhardwaj and Suneeta Agarwal, "**An imaging technique for retrieval of lost content in damaged documents**", *International Journal of Computer Application*, vol. 104, issue 5, 2014.
  48. Mradula Sharma, Kunal Sain, and Suneeta Agarwal, "**GES: A Group based Encoding of Shares for Visual Cryptography without Pixel Expansion**", *International Journal of Computer Applications*, vol. 91, issue 3, April 2014.
  49. Anand Prakash Shukla and Suneeta Agarwal, "**An enhanced cellular automata based scheme for noise filtering**", *International Journal of Signal Processing, Image Processing and Pattern Recognition*, vol. 7 issue 4, p.p. 231-242, 2014.
  50. Rajitha B and Suneeta Agarwal, "**Automated human bone age assessment using image processing methods-Survey**", *International Journal of Computer Applications*, vol. 104, issue 13, 2014.
  51. P. Kumar, S. Agarwal, Shivendra Shivani, "**Halftone Visual Cryptography with Pixel Expansion through error diffusion**", *International journal of Information & Computation Technology*, vol. 4, issue 14, pp 1419-1427, 2014.

52. A.Goel, R. Prasad, S. Agarwal, A. Sangal, **“Efficient Parameterized Matching Using Burrows Wheeler Transform”**, *International Arab Journal of Information Technology(IAJIT)*, 2014 (**SCIE**).
53. S. Agarwal and Ashutosh. Gupta, **“A novel approach for compressing the DNA sequences using semi statistical compressor”**. *International Journal of Computers and Applications, ACTA*, vol 33, Issue 3, pp 245-251, July 2015.
54. Neelam Bhardwaj and Suneeta Agarwal, **“An imaging approach for automatic thresholding of photo defects”**, *Pattern Recognition Letters (Elsevier)*, vol. 60-61, p.p. 32-40, 2015 (**SCI**).
55. Neelam Bhardwaj and Suneeta Agarwal, **“Review of image defect detection and inpainting techniques and scope for improvements”**, *International Journal of Emerging Sciences*, vol. 5, issue 1, p.p. 49-65, 2015.
56. B Rajitha, Mahima Shanker Pandey and Suneeta Agarwal, **“Computer assisted automated detection of knee osteoarthritis using x-ray images”**, *International Journal of Regulation and Governance*, vol. 1, issue 2, pp. 74-79, 2015 (**Scopus**).
57. Priyanka Singh and Suneeta Agarwal, **“An efficient fragile watermarking scheme with multilevel tamper detection and recovery based on dynamic domain selection”**, *Multimedia Tools and Applications*, vol. 75, issue 14, pp. 8165-8194, 2015 (**SCI**).
58. Anand Prakash Shukla, and Suneeta Agarwal, **“Selection of optimum rule set of two dimensional cellular automata for some morphological operations”**, *International Journal of Information Technology and Computer Science*, vol. 12, p.p. 50-58, 2015.
59. Nidhi Gupta, Anand Prakash Shukla, and Suneeta Agarwal, **“Despeckling of Medical Ultrasound Images : A Technical Review”**, *International Journal of Information Engineering and Electronic Business*, vol. 3, p.p. 11-19, 2016
60. Shivendra Shivani, Suneeta Agarwal, **“Novel Basis Matrix Creation and Preprocessing Algorithms for Friendly Progressive Visual Secret Sharing with Space-Efficient Shares”**, *Multimedia Tools and Application*, vol. 75, issue 7, 2016 (**SCI**).
61. Priyanka Singh and Suneeta Agarwal, **“A self recoverable dual watermarking scheme for copyright protection and integrity verification”**, *Multimedia Tools and Applications*, pp. 1-40, 2016 (**SCI**).
62. Radhika khetan, Suneeta Agarwal, Rajesh Prasad, **“An efficient approach towards compressed parameterized word matching using wavelet tree”**, *Journal of Information and Optimization Sciences (Taylor & francis)*, vol. 37, issue 2, pp. 285–301, 2016.
63. Shivendra Shivani, S Agarwal, **“VPVC: verifiable progressive visual cryptography”**, *Pattern Analysis and Applications (Springer)*, pp 1-28, 2016 (**SCIE**).

64. Shivendra Shivani, Suneeta Agarwal, **“Progressive visual cryptography with unexpanded meaningful share”**, *ACM Transactions on Multimedia Computing, Communications, and Applications*, vol. 12, issue 4, pp 50.1- 50.40-24, 2016 (SCI).
65. Priyanka Singh and Suneeta Agarwal, **“A region adaptive robust watermarking scheme based on homogeneity analysis”**, *The International Arab Journal of Information Technology*, Volume 13, No. 5, September 2016 (SCI).
66. Shivendra Shivani, Rajitha B., Suneeta Agarwal, **"XOR based continuous-tone multi secret sharing for store-and-forward telemedicine"**, *Multimedia Tools and Applications*, vol. 76, issue 3, pp 3851-3870 Feb, 2017 (SCIE).
67. Rajitha Bakthula, Shivendra Shivani and Suneeta Agarwal, **“Self authenticating medical X-ray images for telemedicine applications”**, *Multimedia Tools and Applications* Vol. 77, Issue 7, pp: 8375-8392, April 2018, DOI: 10.1007/s11042-017-4738-2. (SCIE)
68. Shambhu Shankar Bharti, Manish Gupta and Suneeta Agarwal, **“A novel approach for verifiable (n, n) audio secret sharing scheme”**, *Multimedia Tools and Applications*, DOI 10.1007/s11042-018-5810-2, Feb. 2018 (SCIE).
69. Shambhu Shankar Bharti, Manish Gupta and Suneeta Agarwal, **“SVM based Voice Activity Detection by fusing a new acoustic feature PLMS with some existing acoustic features of speech”**, *Journal of Intelligent & Fuzzy Systems*, vol. 35, no. 2, pp. 1519-1530, 2018 (SCIE).
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  122. Anand Prakash Shukla and Suneeta Agarwal "**Cellular Automata and Image Pyramid Decomposition based Scheme for Image Segmentation**", *11<sup>th</sup> Annual International Conference on Computer Science and Education in Computer Science, (CSECS 2015)*, in Boston, MA, USA, pp,230, vol. 11, 4-7 June, 2015

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137. Manish Gupta, Shambhu Shankar Bharti and Suneeta Agarwal, **"Implicit Language Identification System based on Random Forest and Support Vector Machine for Speech"**, *4<sup>th</sup> IEEE International Conference on Power, Control and Embedded Systems. MNNIT, Allahabad, India. March 9-11,2017*, p.p. 1-6. (**IEEE**).
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143. Rajitha Bakthula and Suneeta Agarwal: **”Radiographic X-Ray Images Enhancement with Edge Preservation using Singular Value Decomposition”**, *International Conference on*

- Computational Materials Science and Thermodynamic Systems: CMST-2018, held in Wolfson College, Cambridge University, UK, March 22-23, 2018.
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  145. Saumya Chaurasia, Suneeta Agarwal. " **Recognition of handwritten numerals of various Indian regional languages using deep learning**", 5<sup>th</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), IEEE.
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  147. Avni Rateria, Suneeta Agarwal, " **Offline Signature Verification Through Machine learning**", 5<sup>th</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), IEEE.
  148. Vibhuti Pratap Singh and Suneeta Agarwal, " **Content Based Image Retrieval using Image classification based on Convolutional Neural Network**", *International Conference on Big Data, Machine Learning and Applications (BigDML-2019) (Accepted)*.
  149. Himanshu Rohilla, and Suneeta Agarwal, " **Head pose prediction while tracking lost in a Head Mounted Display**", *International Conference on Machine Intelligence and Signal Processing (MISP-2019). (Presented)*.

### National Conferences [23]

1. Ashish Agrawal and Suneeta Agarwal, " **Cluster analysis through maximum spanning path an application for job shop**", 8<sup>th</sup> National Convention of Production Engineers, New Delhi, 1993.
2. Ashish Agrawal and Suneeta Agarwal, " **A improved production cell formation technique using graph theory in batch shop environment**", INCARF-93, I.I.T. New Delhi. Tata McGraw-Hill Publ.Company, 1993.
3. Teaching mathematics to engg. and computer sc. Students, Sixth Annual Conference of Vijnana Parishad of India Jhansi, India, Dec 26-28, 1996.
4. B. Naidu, R. S. Yadav, and Suneeta Agarwal, " **Static signature verification system**", *Annual Conference of Infocomtech, Jodhpur, India, 2000*.
5. Sanjai Kumar Gupta and Suneeta Agarwal, " **Fast finger print verification through minutiae feature extraction**", *National Conference on Trends and Techniques in IT, jointly organized by IETE and CSI at Gwalior (M.P.), pp 73-80, March 2001*.

6. Ravindra Purwar and Suneeta Agarwal, "**Handwritten English Character Recognition**", *Conference on Trends and Techniques in Information Technology, I.E.T. Gwalior, March 2001.*
7. Ajit Kumar and Suneeta Agarwal, "**Late integration of hidden markov model and artificial neural networks for speech recognition**", *Conference on Vision Graphics and Image Processing (NVGIP 2005), Shimoga, Karnataka, March 2-3 2005.*
8. Vikas Kumar and Suneeta Agarwal, "**Online handwriting recognition problem issues and techniques**", *Conference on Image Processing, Thadomal Sahani Engg. College, Mumbai, Feb. 11-12 2005.*
9. Vikas Kumar and Suneeta Agarwal, "**Template-based writer-independent online character recognition system**". *In Workshop on OCR and DS- 2005 I.I.I.T, 2005.*
10. Ashutosh Gupta and Suneeta Agarwal, "**String matching in end-tagged dense code**", *National Seminar on Recent Advances in Information Technology, (RAIT-07), pp 143-149, Feb 2007.*
11. S. Nikam and Suneeta Agarwal, "**Fingerprint based biometrics: A tool for security and access control**", *National Conference on Digital Information Management (NCDIM-2007), Mumbai, India, pp 10-16, March 23-25 2007.*
12. S. Nikam and Suneeta Agarwal, "**Fingerprint Recognition**", *National conference on Applications of Digital signal processing (NCDSP-2007), Mumbai, India, pp 26-34, January 19-20 2007.*
13. Rajesh Prasad and Suneeta Agarwal, "**Shift-or string matching algorithm for multiple patterns**", *National Seminar on Recent Advances in Information Technology, (RAIT-07), ISMU, Dhanbad,, pp 195-202, Feb 22-23 2007.*
14. Sweetesh Tarun and Suneeta Agarwal, "**Back forth sorting algorithm**", *Advanced Computing and Communication Technologies (ICACCT-2008), Panipat, Nov 8-9 2008.*
15. Ashutosh Gupta and Suneeta Agarwal, "**A dynamic compression scheme for natural language text**", *National Seminar on Recent Advances in Information Technology, (RAIT-09), Feb 2009.*
16. Sanjai Kumar Gupta and Suneeta Agarwal, "**Performance analysis of bit plane complexity segmentation (bps) for color images in spatial domain**", *Conference organized by Jaypee Institute of Engineering and Technology, Guna, M.P., India, pp 1-11, December 4-6 2009.*
17. Rajesh Prasad and Suneeta Agarwal, "**Suffix automata: An application to parameterized string matching and learning**", *National Seminar on E-Learning, Ewing Christian College, Allahabad, pp 22-25, March 21-22 2009.*
18. Sanjai Kumar Gupta and Suneeta Agarwal, "**A review of digital watermarking**", *National Conference organized by Jaypee Institute of Engineering and Technology, Guna, M.P., India, March 2010.*

19. Sushila Kamble Jaishree Jain and Suneeta Agarwal, "**Multiple watermarking based on quantization using spread transform dither modulation**", *Image Processing(NCIMP) Bangalore*, pp 282-285, 2010.
20. Amardeep Singh and Suneeta Agarwal, "**Improved human coding method based on number system**", *National Conference on Advance Computing and Communication ACCT-2010, Rohtak-Haryana*, pp 481-485, June 25-26 2010.
21. Anand Prakash Shukla and Suneeta Agarwal, "**Effective Brain Tumor Volume Analysis using Adaptive Chain Segmentation by Cellular Automata**", 4<sup>th</sup> *National Conference on Computing Trends & Issues for National Development,(CTIND- 2011)*.
22. Shilpi Srivastava and Suneeta Agarwal, "**Efficient shape matching and object recognition using similarity measures based in shape context**", *National Conference in Emerging Trends in Intelligent Computing and Communication, Galgotia College of Engineering and Technology, Greater Noida*, pp 361-364, April 13-14 2012.
23. Priyanka Singh, Shivendra Shivani and Suneeta Agarwal, "**A chaotic map based dct-svd watermarking scheme for rightful ownership verification**", *Student Conference on Engineering and Systems, MNNIT, Allahabad*, May 28-30 2014.

#### **Books and Chapters[6]**

1. S. Agarwal, "**A study of stack permutations**", *In Recent Trends in Mathematical Sciences, Narosa*, pp 384-394. December 2000.
2. Ashutosh Gupta and Suneeta Agarwal, "**Compression Using Encryption**", *Trends in Intelligent Systems and Computer Engineering*, vol.6, pp. 645-653, Springer US, 2008.
3. Ashutosh Gupta and Suneeta Agarwal, "**Transforming the natural language text for improving compression performance**", *Trends in Intelligent Systems and Computer Engineering*, vol. 6, pp. 637-643, Springer US, 2008.
4. Shankar Bhausheb Nikam and Suneeta Agarwal, "**Gabor filter-based fingerprint anti-spoofing**", *International Conference on Advanced Concepts for Intelligent Vision Systems*, pp. 1103-1114, Springer Berlin Heidelberg, 2008.
5. Krishna Kumar, Rajesh Prasad and Suneeta Agarwal, "**Software maintenance by multi-patterns parameterized string matching with q-gram**", *ACM SIGSOFT Software Engineering Notes*, vol. 35, pp. 1-5, ACM NY USA May 2010.
6. Rajesh Prasad and Suneeta Agarwal, "**Parameterized string matching: an application to software maintenance**", *ACM SIGSOFT Software Engineering Notes*, vol. 35, pp. 1-5, ACM NY USA May 2010.

7. *Shambhu Shankar Bharti, Manish Gupta and Suneeta Agarwal, “Background Noise Identification System Based on Random Forest for Speech”, Advances in Intelligent Systems and Computing, vol. 632, pp. 323-332, Springer 2018.*

### **Other Relevant Information**

#### **Details of Administrative:-**

1. Chairman, GIS Cell (2 years)
2. Head of Department of Computer Science and Engineering.
3. Dy. Dean(R&C)
4. Dy. Dean(Academics)
5. Warden (Girls Hostel)
6. Convener (DUGC)
7. Convener (DPGC)
8. O.C. (Computer Vision Lab)
9. In-charge (Department purchase committee)
10. Chairperson (Women Grievance Committee)

#### **Projects Undertaken:-**

1. Development of Robotics Facility Ministry of Human Resource Development, Govt. of India.
2. Learning Material on Discrete mathematics I.S.T.E., New Delhi. (Already completed)

#### **Details of membership of Professional Bodies:-**

1. I.S.T.E. (Life Member)
2. Computer Society of India (Life Member)

#### **Books Published:-**

1. Handbook of Image-based Security Techniques (CRC Press (Taylor & Francis )- May-2018, ISBN 9781138054219, available at: <https://www.crcpress.com/Handbook-of-Image-based-Security-Techniques/Shivani-Agarwal-Suri/p/book/9781138054219> ).
2. Text Compression Schemes: Allowing Partial Decompression and Other Operations (Scholars' Press - June, 2013), ISBN 978-3639514049, available at: <https://www.amazon.com/Text-Compression-Schemes-Decompression-Operations/dp/3639514041> ).
3. Discrete Mathematics and Graph Theory (In Press).



**Ph.D. Thesis Evaluated of Various reputed universities and IITs /IIITs**

1. IIT Roorkee
2. IIT Dhanbad
3. IIT BHU
4. IIT Guwahati
5. Delhi University
6. Central University Hyderabad
7. IIIT Allahabad
8. IIIT Jablapur

**Reviewer of Journal/conference papers :-**

- 1 Neuro Computing (Elsevier)
- 2 CSVTU Research Journal (CSVТУ, Chhattisgarh Swami Vivekanand Technical University)
- 3 Conference- ICCIMA'07 Shiva Kashi
- 4 WSAS Journals and Conferences
- 5 Institution of Engineers
- 6 Multimedia Tools and Applications (Springer)
- 7 IET Image Processing
- 8 Journal of Institute of Engineers
- 9 IETE Journal of Research
- 10 Springer Plus
- 11 Signal, Image and Video Processing
- 12 Computer Standard and Interface
- 13 International Journal of Software Security and Testing
- 14 International Journal of Computer and Information Technology
- 15 International Journal of Bioinformatics Based Applications
- 16 South Asia Journal of Multidisciplinary Studies
- 17 International Journal of Electronics and Communications

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