

Research & Publications

(a) Paper in International Journals:

I. SCI/SCIE

- [1] Manoj Shukla, Vinay Kumar Srivastava, and Sudarshan Tiwari, "Analysis and Design of Optimum Interleaver for Iterative Receivers in IDMA Scheme" in Proceedings of Journal Wireless Communications and Mobile Computing, Wiley InterScience Vol 9. Issue 10, pp. 1312-1317, 2009. SCIE WIRELESS COMMUNICATIONS & MOBILE COMPUTING WILEY-HINDAWI 1530-8669 1530-8677 ENGLAND)
- [2] M.K. Hota and Vinay Kumar Srivastava, "Improvement in protein-coding region identification based on sliding window trigonometric fast transforms using Singular Value Decomposition," International Journal of Data Mining and Bioinformatics, Inderscience Publishers, Vol. 5, No. 1, pp. 110-127, 2011. Indexed in SCIE, Scopus
- [3] M.K. Hota and Vinay Kumar Srivastava, "Multistage filters for identification of eukaryotic protein coding regions," International Journal of Biomathematics, World Scientific Publishing Company. Volume: 5, Issue: 2(2012) 1250018 (18 pages) DOI No: 10.1142/S179352451100160X, Impact Factor of 1.667 (SCIE, Scopus)
- [4] M.K. Hota, and Vinay Kumar Srivastava, "Identification of protein coding regions using antinotch filters", Digital Signal Processing, Elsevier, Volume 22, Issue 6, December 2012, Pages 869-877. www.elsevier.com/locate/dsp (SCIE, Scopus IF: 2.9)
- [5] Falgun Thakkar and Vinay Kumar Srivastava, "A fast watermarking algorithm with enhanced security using compressive sensing and principle components and its performance analysis against a set of standard attacks" in International Journal of Multimedia tools and application – Springer, vol. 76, pp. 15191–15219 (2017), DOI : 10.1007/s11042-016-3744-0. SCIE IF: 3.6
- [6] Falgun Thakkar and Vinay Kumar Srivastava, "A blind medical image watermarking: DWT-SVD based robust and secure approach for telemedicine applications" in International Journal of Multimedia tools and application - Springer Group of Journal, vol. 76, pp. 3669–3697 (2017), DOI 10.1007/s11042-016-3928-7.(SCIE) IF: 3.6
- [7] Falgun Thakkar and Vinay Kumar Srivastava, "A particle swarm optimization and block-SVD based watermarking for digital images" in Turkish Journal of Electrical Engineering and Computer Sciences, vol. 25, Number 4 (2017), pp. 3273-3288 DOI: 10.3906/elk-1603-17, E-ISSN:1303-6203, ISSN: 1300-0632. SCIE IF: 1.1
- [8] M.K. Hota and Vinay Kumar Srivastava, "A multirate DSP structure for the identification of protein-coding regions" International Journal of Biomathematics, World Scientific Publishing Company. International Journal of Biomathematics, Vol. 10, No. 8 (2017) 1750112, DOI: 10.1142/S1793524517501121, (SCIE, Scopus IF: 2.2)

- [9] Falgun Thakkar and Vinay Kumar Srivastava. "Performance comparison of recent optimization algorithm Jaya with particle swarm optimization for digital image watermarking in complex wavelet domain", *Multidim Syst Sign Process* 30, 1769–1791(2019) <https://doi.org/10.1007/s11045-018-0627-8>(SCOPUS,SCI/SCIE)IF: 2.5
- [10] Priyank Khare and Vinay Kumar Srivastava, "A reliable and secure image watermarking algorithm using homomorphic transform in DWT domain." *Multidim Syst Sign Process* 32, 131–160 (2021). <https://doi.org/10.1007/s11045-020-00732-1> (SCImago, SCOPUS, SCI, SCIE) IF: 2.5
- [11] Priyank Khare and Vinay Kumar Srivastava, "A Secured and Robust Medical Image Watermarking Approach for Protecting Integrity of Medical Images" *Trans. on Emerging Telecommunications Technologies* Vol. 32, Issue 2 DOI: 10.1002/ett.3918 (SCIE)
- [12] Falgun Thakkar and Vinay Kumar Srivastava,. (2021). "An adaptive, secure and imperceptible image watermarking using swarm intelligence, Arnold transform, SVD and DWT", *Multimedia Tools and Applications*. 80. 1-18, 12275-12292. [10.1007/s11042-020-10220-0](https://doi.org/10.1007/s11042-020-10220-0). SCIE, IF:3.6
- [13] Divyanshu Awasthi and Vinay Kumar Srivastava, "LWT-DCT-SVD and DWT-DCT-SVD based watermarking schemes with their performance enhancement using Jaya and Particle swarm optimization and comparison of results under various attacks" *Multimedia Tools and Applications* 81 (18), 25075-25099, March 2022 DOI: 10.1007/s11042-022-12456-4,(SCOPUS, SCIE) IF:3.6
- [14] Divyanshu Awasthi and Vinay Kumar Srivastava, "Robust, imperceptible and optimized watermarking of DICOM image using Schur decomposition, LWT-DCT-SVD and its authentication using SURF," *Multimedia Tools and Applications*, 27 September 2022, Vol. 82, 16555–16589 (2023). <https://doi.org/10.1007/s11042-022-14002-8> (SCOPUS, SCIE) IF:3.6
- [15] Divyanshu Awasthi and Vinay Kumar Srivastava. "Performance enhancement of SVD based dual image watermarking in wavelet domain using PSO and JAYA optimization and their comparison under hybrid attacks." *Multimed Tools Appl*, vol. 82,pp. 35685–35717 (2023). <https://doi.org/10.1007/s11042-023-14723-4>. (SCOPUS, SCIE) IF:3.6
- [16] Anurag Tiwari and Vinay Kumar Srivastava, "Novel schemes for the improvement of lifting wavelet transform-based image watermarking using Schur decomposition", *Journal Supercomputing*, vol. 79, pp. 13142-13179 (2023). <https://doi.org/10.1007/s11227-023-05167-6>.(SCOPUS, SCI, SCIE) IF:3.3

- [17] Divyanshu Awasthi and Vinay Kumar Srivastava “Hessenberg Decomposition-Based Medical Image Watermarking with Its Performance Comparison by Particle Swarm and JAYA Optimization Algorithms for Different Wavelets and Its Authentication Using AES.” *Circuits Syst Signal Process*, vol. 42, pp. 4953–4984 (2023). <https://doi.org/10.1007/s00034-023-02344-z>. (SCOPUS, SCIE) IF: 2.3
- [18] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, "BacterialWmark: telemedicine watermarking technique using bacterial foraging for smart healthcare system," *Journal of Electronic Imaging* 32(4), 042107 (29 March 2023). <https://doi.org/10.1117/1.JEI.32.4.042107> IF:1.1(SCOPUS, SCIE)
- [19] Anurag Tiwari, Divyanshu Awasthi and Vinay Kumar Srivastava. “Image security enhancement to medical images by RDWT-DCT-Schur decomposition-based watermarking and its authentication using BRISK features.” *Multimedia Tools Applications*, vol. 83, pp. 61883–61912 (2024) <https://doi.org/10.1007/s11042-023-15878-w> (SCOPUS, SCIE) IF:3.6
- [20] Anurag Tiwari and Vinay Kumar Srivastava “Image watermarking techniques based on Schur decomposition and various image invariant moments: a review”, *Multimedia Tools and Applications*, vol. 83, pp. 16447–16483 (2024). <https://doi.org/10.1007/s11042-023-16109-y>. (SCImago, SCOPUS, SCIE) IF:3.6
- [21] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava “Internet of medical things-based authentication for an optimized watermarking of encrypted EEG”, *The Journal of Supercomputing*, vol. 80, pp. 2970–3004 (2024). <https://doi.org/10.1007/s11227-023-05566-9>. (SCOPUS, SCIE, SCI) IF:3.3
- [22] Ranjana Dwivedi, Divyanshu Awasthi and Vinay Kumar Srivastava, “An Optimized Dual Image Watermarking Scheme based on Redundant DWT and Randomized SVD with Henon Mapping Encryption,” *Circuits Systems and Signal Processing*, vol. 43, pp. 408–456 (2024). <https://doi.org/10.1007/s00034-023-02479-z>. (SCOPUS, SCIE) IF: 2.3
- [23] Divyanshu Awasthi and Vinay Kumar Srivastava “Multiple image watermarking with dual authentication for smart and safe city environment,” *Multimedia Tools and Applications*, vol. 83, pp. 62181–62208 (2024). <https://doi.org/10.1007/s11042-023-16523-2>. (SCImago, SCOPUS, SCIE) IF:3.6
- [24] Divyanshu Awasthi and Vinay Kumar Srivastava, “An Optimized and Secured Image Watermarking and Its Dual Authentication for Internet of Medical Things” *Circuits Systems and Signal Processing*, 43, 1270–1297 (2024). <https://doi.org/10.1007/s00034-023-02519-8>. (SCOPUS, SCIE) IF: 2.3

- [25] Divyanshu Awasthi, Anurag Tiwari, Priyank Khare and Vinay Kumar Srivastava, “A comprehensive review on optimization-based image watermarking techniques for copyright protection,” *Expert Systems with Applications*, Vol. 242, 15 May 2024, 122830, <https://doi.org/10.1016/j.eswa.2023.122830>, SCOPUS, SCIE, IF: 8.5
- [26] Ranjana Dwivedi, Divyanshu Awasthi and Vinay Kumar Srivastava, WSOMedMark: Robust and optimized dual image watermarking using RDWT and its authentication using BRISK and MSER features for smart healthcare system. *Multimedia Tools and Applications* (2024) <https://doi.org/10.1007/s11042-024-19522-z>. (SCOPUS, SCIE) IF:3.0
- [27] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, RFDB: Robust watermarking scheme with Fuzzy-DnCNN using blockchain technique for identity verification, *Expert Systems with Applications*, Vol. 255, Part B, 2024,124554, ISSN 0957-4174, <https://doi.org/10.1016/j.eswa.2024.124554>. (SCOPUS, SCIE), IF: 7.5
- [28] Divyanshu Awasthi, Priyank Khare, Vinay Kumar Srivastava and Amit Kumar Singh, ANFIS optimization-based watermarking for securing integrity of medical images with blockchain authentication, *Computers and Electrical Engineering*, 2024, 118, 109451, <https://doi.org/10.1016/j.compeleceng.2024.109451>. (SCOPUS, SCIE), IF: 4
- [29] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, BNHWA: NifTI image watermarking with aid of PSO and BO in wavelet domain with its authentication for telemedicine applications, *Multimedia Tools and Applications*, August 2024, <https://doi.org/10.1007/s11042-024-19889-z> (SCOPUS, SCIE)
- [30] Dwivedi, R., Srivastava, V.K. HSWmark: Robust and reversible image watermarking with improved capacity using Quad-tree segmentation. *Pattern Analysis Applications*, 27, 142 (2024). <https://doi.org/10.1007/s10044-024-01370-0>. (SCOPUS, SCIE) IF: 3.7
- [31] Anurag Tiwari, Divyanshu Awasthi and Vinay Kumar Srivastava, “RFPPFMark: Robust and False Positive Problem Free Image Watermarking Scheme with its Performance Comparison by PSO and MRFO in Schur domain” in *Signal, Image and Video Processing SIViP* 19, 199 (2025). <https://doi.org/10.1007/s11760-024-03704-1>. (SCOPUS, SCIE)
- [32] Divyanshu Awasthi, Priyank Khare, Vinay Kumar Srivastava, Amit Kumar Singh and Brij B. Gupta, “DeepNet: Protection of deepfake images with aid of deep learning networks *Image and Vision Computing*”, April 2025, <https://doi.org/10.1016/j.imavis.2025.105540>

- [33] Ranjana Dwivedi, Divyanshu Awasthi and Vinay Kumar Srivastava, An optimized ECG copyright protection technique and its feature authentication, Computers & Electrical Engineering, June 2025. DOI: 10.1016/j.compeleceng.2025.110546
- [34] Anurag Tiwari and Vinay Kumar Srivastava, MIWHSmrk: Multiple Image Watermarking Based on Hybrid Technique in Schur Domain for Smart Healthcare System, Circuits Systems and Signal Processing, June 2025 DOI: 10.1007/s00034-025-03148-z
- [35] Awasthi, D., Srivastava, V.K., ROI-based optimized image watermarking with real-time authentication. Cluster Comput 28, 463, 2025. <https://doi.org/10.1007/s10586-025-05436-4> (SCOPUS, SCIE)
- [36] Priyank Khare, Divyanshu Awasthi and Vinay Kumar Srivastava, “MultiMark: Multi-Descriptor Fuzzy Assisted Secure NIFTI Image Transfer Framework With Features Control Authentication,” Concurrency and Computation: Practice and Experience 37, no. 25-26 (2025): e70311, <https://doi.org/10.1002/cpe.70311>.
- [37] Awasthi, D., Khare, P. & Srivastava, V.K. ANFISmark: ANFIS-based secure watermarking approach for telemedicine applications. Neural Comput & Applic 37, 8677–8698 (2025). <https://doi.org/10.1007/s00521-025-11030-x>
- [38] D. Awasthi, A. Tiwari, P. Khare, and V. K. Srivastava, “Deep Learning-Based Data Hiding Techniques for Secure Communication: A Comprehensive Review,” Concurrency and Computation: Practice and Experience 38, no. 8 (2026): e70706, <https://doi.org/10.1002/cpe.70706>.
- [39] Sudheer Kumar Tiwari, Vinay Kumar Srivastava, Sonam Agrawal, Raghvendra Singh, Identifying Rice Transplantation Dates using Sentinel-1 Synthetic Aperture Radar data and Machine Learning, March 2026, Journal of Scientific & Industrial Research, 84(11):1205-1215, DOI: 10.56042/jsir.v84i11.15575

II. Scopus/E-SCI/ SCImago

- [40] Vinay Kumar Srivastava, “A SVD based Scheme for Postprocessing of DCT Coded Images” Electronic Letters on Computer Vision and Image Analysis, ELCVIA ISSN:1577-5097, 8(3): 1- 14, 2009.(ELCVIA is ranked with SJR (SCImago Journal Rank) indicator: 0.12 and Scopus)
- [41] M.K. Hota and Vinay Kumar Srivastava, “Identification of protein coding regions using modified Gabor-wavelet transform with signal boosting technique,” International Journal of Computational Biology and Drug Design, Inderscience Publishers, Vol. 3, No. 4, pp. 259-270, 2010. Scopus

- [42] M.K. Hota and Vinay Kumar Srivastava, "Identification of protein coding regions in eukaryotes using Fourier Transforms and Singular Value Decomposition using multiple length sliding windows," International Journal of Signal and Imaging Systems Engineering, Inderscience Publishers, Vol. 4, No. 2, pp 115-122,2011. Scopus and E-SCI
- [43] Sushila Kamble, Vikas Maheshkar, Suneeta Agarwal and Vinay Kumar Srivastava, "Multiple Watermarking for Copyright Protection using DWT and Dual-tree CWT", International Journal of Intelligent Engineering Informatics 2011-Vol. 1, No.3/4 pp 348-369, Inderscience Publishers (ESCI)
- [44] S. Gaur and Vinay Kumar Srivastava "A Robust and Secure Block-SVD based Embedding of Encrypted Watermark in Digital Images using RDWT," International Journal of Security and its application, vol. 11, no. 1, pp. 257–270, 2017. (Scimago)
- [45] S. Gaur and Vinay Kumar Srivastava, "A RDWT and Block Based Dual Watermarking Scheme for Digital Images", International Journal of Advanced Computer Science And Applications, vol. 8, no. 4, pp. 211-219, 2017.Thomson Reuters ESCI.
- [46] Priyank Khare and Vinay Kumar Srivastava, "Secure and Robust Image Watermarking Scheme Using Homomorphic Transform, SVD and Arnold Transform in RDWT Domain", Advances in Electrical and Electronic Engineering, vol.17, Issue 3, pp.343-351, 09/2019. (SCOPUS, E-SCI)
- [47] Amit Kumar Singh and Vinay Kumar Srivastava. "A tri-nucleotide mapping scheme based on residual volume of amino acids for short length exon prediction using sliding window DFT method" Network Modeling Analysis in Health Informatics and Bioinformatics Vol. 9 (26) 2020. (SCOPUS, E-SCI, SCImago)
- [48] Priyank Khare and Vinay Kumar Srivastava "A Novel Dual Image Watermarking Technique Using Homomorphic Transform and DWT" Journal of Intelligent Systems 2020 (Scopus, E-SCI),
- [49] Amit Kumar Singh and Vinay Kumar Srivastava (2021). "Improved filtering approach for identification of protein-coding regions in eukaryotes by background noise reduction using S–G filter." Network Modeling Analysis in Health Informatics and Bioinformatics. 10, 19 (2021). <https://doi.org/10.1007/s13721-021-00293-8>(SCOPUS, E-SCI, SCImago)

- [50] Amit Kumar Singh and Vinay Kumar Srivastava, “Bidirectional filtering approach for the improved protein coding region identification in eukaryotes” in Network Modeling Analysis in Health Informatics and Bioinformatics **11**, 13 (2022) 11:13, <https://doi.org/10.1007/s13721-022-00358-2> (SCOPUS, E-SCI, SCImago)
- [51] Ranjana Dwivedi and Vinay Kumar Srivastava, “IWT based robust and secure color image watermarking using Hessenberg decomposition and SVD”, Journal of Optics Aug.2024. DOI: 10.1007/s12596-024-02141-0
- [52] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, “CUSE: Copyright protection of UNESCO heritage images for safe cities environment”, in Multimedia Tools Applications, 2025. <https://doi.org/10.1007/s11042-025-20625-4>
- [53] Anurag Tiwari, Divyanshu Awasthi and Vinay Kumar Srivastava, KHOWmark: optimized dual image watermarking and its two-level authentication for smart healthcare system in schur domain, Multimedia Tools and Applications, April 2025, DOI: 10.1007/s11042-025-20789-z
- [54] Jayasree, K., Kumar Hota, M., Dwivedi, A. K., Ranjan, H., & Srivastava, V. K. (2025). Identification of exon regions in eukaryotes using fine-tuned variational mode decomposition based on kurtosis and short-time discrete Fourier transform. Nucleosides, Nucleotides & Nucleic Acids, 44(6), 507–530. <https://doi.org/10.1080/15257770.2024.2388785>
- [55] Tiwari, A., Awasthi, D. & Srivastava, V.K. SchurMark: Robust and secure ECG watermarking in Schur domain for IOMT. Multimed Tools Appl 85, 331 (2026). <https://doi.org/10.1007/s11042-026-21491-4>

III. Others International Journals

- [56] M.K. Hota and Vinay Kumar Srivastava, “DSP technique for exon prediction in Eukaryotes,” International Journal of Information Processing, I.K. International Publisher, Vol. 2, No. 4, 2008 (ISSN 0973 – 8215) .
- [57] Manoj Shukla, Vinay Kumar Srivastava, and Sudarshan Tiwari, “A VHDL Implementation of Orthogonal Interleavers for the IDMA Scheme” in the IUP Journal of Telecommunications, Vol. I, No. 2, pp. 63-71, November 2009 Available at SSRN: <http://ssrn.com/abstract=1521407>
- [58] M. Shukla, Aasheesh Shukla, Rohit Kumar, Vinay Kumar Srivastava and S. Tiwari, Simple Diversity Scheme for IDMA, Communication System, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.4 No.6 (2009) pp. 877–883
- [59] S. Agarwal, Sushila Kamble, Vikas Maheshkar and Vinay Kumar Srivastava. DWT-SVD based robust image watermarking using arnold map. International journal of Information Technology and Management, 5:101–105, jan-june 2012.

- [60] Vikas Maheshkar, S. Agarwal and Vinay Kumar Srivastava, Sushila Kamble, “DCT-based reduced face for face recognition” .International journal of Information Technology and Knowledge Management, Vol. 5, No 1, pp 97–100, January-june 2012.
- [61] Vikas Maheshkar, S. Agarwal and Vinay Kumar Srivastava, Sushila Kamble, “Feature image generation using low, mid and high frequency regions for face recognition”, International journal of Multimedia & its Applications, (IJMA), AIRCC, Vol 4, No1, Feb. 2012, pp 75-82
- [62] Reena Singh and Vinay Kumar Srivastava, “Weighted Non-Linear Diffusion Filtering with Wavelet Thresholding in Image Denoising”, International Journal of Computer Applications (0975-8887),vol. 78- No.14, September 2013.
- [63] Reena Singh and Vinay Kumar Srivastava, “Optimization of Gradient Threshold Parameter in Feature Preserving Anisotropic Diffusion for Image Denoising” International Journal of Innovative Research in Science, Engineering and Technology Vol. 3, Issue 2, February 2014.(Approved By UGC)
- [64] Falgun Thakkar and Vinay Kumar Srivastava “ Pathological Image Compression Scheme: A Literature Review “, International Journal of Computer Technology & Applications, Vol 5,(2),622-629, March-April 2014.
- [65] Falgun Thakkar and Vinay Kumar Srivastava, “Digital image watermarking in complex wavelet domain and selection of suitable high frequency subband for watermark embedding” International Journal of multidisciplinary research centre. Vol 2(3), 67-75, March 2016.
- [66] Awasthi, D., & Srivastava, V. K. (2026). Optimized Copyright Protection of Scale-Adaptive Saliency-Driven ROI of Medical Records with MSER-Based authentication. ICCCK Transactions on Information Security and Cryptography, 2(1), 43–54. <https://doi.org/10.62762/TISC.2025.898154>

(b) Research & Publications: Books

- [1] Vinay Kumar Srivastava, Priyank Khare, Divyanshu Awasthi and Lalit Garg, Multimedia and Multimodal Intelligence for Sustainable Development, December 2025, DOI: 10.1201/9781003634522, ISBN: 9781003634522
- [2] R. A. Mishra, V. K. Srivastava, Arvind Kumar, Kshirasagar Naik, Advances in VLSI, Communication, and Signal Processing, Select Proceedings of the 6th International Conference, VCAS 2023, Lecture Notes in Electrical Engineering, <https://doi.org/10.1007/978-981-96-8690-2>, Publisher: Springer Singapore, ISBN: 978-981-96-8689-6

(c) Research & Publications: Book Chapters

- [1] Manjot Singh Bilkhu, Samarth Gupta, and Vinay Kumar Srivastava, Emotion Classification from Facial Expressions Using Cascaded Regression Trees and SVM, Advances in Intelligent Systems and Computing, September 2019 In book: Computational Intelligence: Theories, Applications and Future Directions - Volume II, DOI: 10.1007/978-981-13-1135-2_44
- [2] Priyank Khare and Vinay Kumar Srivastava, Homomorphic transform-based dual image watermarking using IWT-SVD for secure e-healthcare applications In book: Intelligent Data Security Solutions for e-Health Applications, January 2020, DOI: 10.1016/B978-0-12-819511-6.00005-4
- [3] Ayush Kumar Nigam, Priyank Khare, and Vinay Kumar Srivastava, Image Compression Using Hybrid Approach and Adaptive Scanning for Color Images, In book: Advances in VLSI, Communication, and Signal Processing, January 2020, DOI: 10.1007/978-981-32-9775-3_69
- [4] Priyank Khare and Vinay Kumar Srivastava, An Efficient Image Watermarking Technique Based on IWT-DCT-SVD, In book: Advances in VLSI, Communication, and Signal Processing, January 2020, DOI: 10.1007/978-981-32-9775-3_76
- [5] Priyank Khare and Vinay Kumar Srivastava, HT-IWT-DCT-Based Hybrid Technique of Robust Image Watermarking In book: Advances in VLSI, Communication, and Signal Processing January 2021 DOI: 10.1007/978-981-15-6840-4_28
- [6] Ranjana Dwivedi and Vinay Kumar Srivastava, Geometrically Robust Digital Image Watermarking Based on Zernike Moments and FAST Technique, In book: Advances in VLSI, Communication, and Signal Processing, October 2022, DOI: 10.1007/978-981-19-2631-0_58
- [7] Anurag Tiwari and Vinay Kumar Srivastava, Imperceptible Digital Image Watermarking Based on Discrete Wavelet Transform and Schur Decomposition In book: Sustainable Technology and Advanced Computing in Electrical Engineering, Proceedings of ICSTACE 2021, Nov. 2022, DOI: 10.1007/978-981-19-4364-5_10
- [8] Ranjana Dwivedi and Vinay Kumar Srivastava, Fundamental optimization methods for machine learning, In book “Statistical Modeling in Machine Learning” January 2023 DOI: 10.1016/B978-0-323-91776-6.00005-1, pg. 227-247
- [9] Ranjana Dwivedi and Vinay Kumar Srivastava, An Imperceptible Semi-blind Color Image Watermarking Using RDWT and SVD, In book: Advances in VLSI, Communication, and Signal Processing, 2023

- [10] Divyanshu Awasthi and Vinay Kumar Srivastava, Robust and Imperceptible Color Image Watermarking Using LWT, Schur Decomposition, and SVD in YCbCr Color Space, In book: Advances in VLSI, Communication, and Signal Processing, 2023
- [11] Divyanshu Awasthi, Priyank Khare, Vinay Kumar Srivastava, (2024). A Secured Dual Image Watermarking technique using QR decomposition, Hénon map, and Chaotic encryption in wavelet domain and its authentication using BRISK, In book: Digital Image Security, 2024, CRC Press, Pages 23, ISBN9781003468974 <https://doi.org/10.1201/9781003468974-5>.,
- [12] Priyank Khare, Divyanshu Awasthi, Vinay Kumar Srivastava, (2024). Securing digital images using HT-MSVD in wavelet domain. In book Digital Image Security, 2024, CRC Press, Pages 17, ISBN9781003468974, <https://doi.org/10.1201/9781003468974-6>.
- [13] Anurag Tiwari, Divyanshu Awasthi, Vinay Kumar Srivastava (2024). MFFWmark: multifocus fusion-based image watermarking for telemedicine applications with BRISK feature authentication, In book: Data Fusion Techniques and Applications for Smart Healthcare, Academic Press, 2024, Pages 341-360, ISBN 9780443132339, <https://doi.org/10.1016/B978-0-44-313233-9.00021-7>.
- [14] Awasthi, D., Khare, P., Srivastava, V.K. (2025). Copyright Protection of NIfTI Images with ANFIS-Based Optimization. In: Advancements in Signal, Image and Video Processing. SPIN 2025 2025. Lecture Notes in Electrical Engineering, vol 1449. Springer, Singapore. https://doi.org/10.1007/978-981-96-9967-4_23
- [15] Tiwari, A., Srivastava, V.K. (2025). MECGWmark: Multiple ECG Watermarking Scheme in RDWT Domain Using Dual Decomposition for Smart Healthcare Application. In: Dubey, A.K., Rocha, A., Kwasnicka, H., Mihaylova, L. (eds) Advancements in Signal, Image and Video Processing. SPIN 2025 2025. Lecture Notes in Electrical Engineering, vol 1449. Springer, Singapore. https://doi.org/10.1007/978-981-96-9967-4_22
- [16] Divyanshu Awasthi, Priyank Khare, Ambarish Yadav, Ashish Kumar Sharma, Vinay Kumar Srivastava, Fuzzyfake: Copyright Protection of Deep Fake Images Using FIS Optimization, July 2025, In book: Computer Vision and Image Processing, DOI: 10.1007/978-3-031-93694-4_11
- [17] Tiwari, A., Srivastava, V.K., PZMSMark: Pseudo Zernike Moment Based Hiding Scheme for Medical Image in Schur Domain, In book: Advances in VLSI, Communication, and Signal Processing, January 2026, DOI: 10.1007/978-981-96-8690-2_13
- [18] Ranjana Dwivedi, Divyanshu Awasthi and Vinay Kumar Srivastava, QR Decomposition and SVD-Based Medical Image Watermarking Technique in Transform Domain, in

- book: Advances in VLSI, Communication, and Signal Processing, January 2026, DOI: 10.1007/978-981-96-8690-2_16
- [19] Tiwari, A., Srivastava, V.K., RPZMWMARK: RDWT-PZM-Based Image Watermarking Scheme of DICOM Image, In book: Proceedings of the 4th International Conference on Signal and Data Processing, January 2026, DOI: 10.1007/978-981-95-1058-0_21
- [20] Priyank Khare, Divyanshu Awasthi and Vinay Kumar Srivastava, CFRV: Copyright Protection of Fundus Images and Real-Time Identity Verification for Smart Healthcare, in book: Advances in VLSI, Communication, and Signal Processing, January 2026, DOI: 10.1007/978-981-96-8690-2_26
- [21] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, Fuzzymark: Fuzzy Based Watermarking for NIfTI Images Using RDWT-QR-RSVD, in book: Advances in VLSI, Communication, and Signal Processing, January 2026, DOI: 10.1007/978-981-96-8690-2_12
- [22] Anurag Tiwari, Divyanshu Awasthi and Vinay Kumar Srivastava, Smart Healthcare Security with Moment-Based DICOM Image Protection, in book Multimedia and Multimodal Intelligence for Sustainable Development, December 2025, DOI: 10.1201/9781003634522-9
- [23] Ranjana Dwivedi, Divyanshu Awasthi and Vinay Kumar Srivastava, EEGmark: LWT and Dual Decomposition-Based Secure EEG Watermarking with Optimization in book Multimedia and Multimodal Intelligence for Sustainable Development, December 2025, DOI: 10.1201/9781003634522-14

(d) Research & Publications: Articles in proceedings (International)

- [1] Vinay Kumar Srivastava and G.C. Ray, "Design of 2D multiple notch filter and its application in reducing blocking artifacts from DCT coded images." in the proceedings of the International Conference of IEEE Engineering in Medicine and Biology, Chicago, USA, TH-G301-06, July 23-28, 2000.
- [2] Vinay Kumar Srivastava and G. C. Ray, "A hybrid scheme for post processing of DCT coded images" in the proceedings of the International Conference on Biomedical Engineering -2001, Chennai, India, pp. 175-179, Jan. 24-26, 2001.
- [3] Vinay Kumar Srivastava "A SVD Based Scheme for Post Processing Of DCT Coded Images" in IEEE International Conference on Signal and Image Processing (ICSIP 2006), held in HUBLI, Karnataka, India during December 7-9, 2006.
- [4] Vinay Kumar Srivastava "A DCT based Algorithm for Blocking Artifact Reduction from DCT Coded Images", in IEEE International Conference on Industrial Technology (ICIT 2006) held in Mumbai, India, December 15-17, 2006.

- [5] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari,, “Interleave Division Multiple Access for Wireless Communication” in International Conference ICONGENCOM-2006, Dec 9-11, 2006, in Allahabad, India on page 150-154.
- [6] Vinay Kumar Srivastava “A DCT based Blocking Artifact Reduction Algorithm for the Post-processing of DCT Coded Images” in International Conference on Information & Communication Technology (IICT 2007).
- [7] M. Shukla, N.V. Anil Kumar, Vinay Kumar Srivastava and S.Tiwari, “A novel Interleaver for Interleave-division Multiple-access Scheme” in International Conference on Information & Communication Technology (IICT 2007) held at Dehradun, India during July 26-28, 2007.
- [8] M.K. Hota, Vinay Kumar Srivastava, “A comparative study of gene and exons identification by taking into account phase information of the indicator sequences using DSP”, Proceedings of International Conference on Advance Computing, Chikhli, India, 21 – 22 February, 2008.
- [9] M.K. Hota, Vinay Kumar Srivastava, “DSP Methods for Gene Prediction,”in International Conference on SSPCCIN, pp.350-353, Pune, India, 3–5 Jan. 2008.
- [10] M.K. Hota, Vinay Kumar Srivastava, “DSP technique for gene and exon prediction taking EIIP indicator sequence,” in International Conference on Information Processing, Bangalore, India, 08 – 10 August, 2008.
- [11] Manoj Shukla, Vinay Kumar Srivastava Sudarshan Tiwari, “Analysis and Design of Tree Based Interleaver for Iterative Multiuser Receivers in IDMA Systems” in IEEE International Conference on Networks (ICON 2008) New Delhi, India from Dec. 12th to 14th, 2008.
- [12] M.K.Hota, Vinay Kumar Srivastava “DSP technique for gene and exon prediction taking Complex indicator sequence”, in IEEE R 10 TENCON 2008 held at Hyderabad, India during November 18-21, 2008.
- [13] Susanta Kumar Tripathy, Vinay Kumar Srivasatva, “Speed-error tradeoff in CORDIC architecture” in the Silver Jubilee Conference (International level Conference) on Communication Technologies and VLSI Design (Commv2009) held at VIT University, Tamilnadu, India from October 6-10, 2009
- [14] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, “Analysis and Design of Optimum Interleaver for Iterative Receivers in IDMA Scheme” in Proceedings of International Conference on Computing and Networking “ICDCN 2009”, pp. 400-407, January 3-6, 2009

- [15] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Different Designing Factors for IDMA Systems" in Proceedings of International Conference on Computer, Communication, and Control and Information Technology "C3 IT 2009" in Academy of Technology, Calcutta, pp. 748-756, Feb. 6-7, 2009.
- [16] Manoj Shukla, SK Srivas, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance Maximal Ratio Combining Diversity Scheme for IDMA Systems" in Fifth IEEE Conference on Wireless Communication and Sensor Networks "WCSN 2009" , IITA, Allahabad, pp. 186-189, Dec, 11-12, 2009.
- [17] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance Analysis of Tree Based Interleaver with IDMA Systems using Optimum Power Allocation Algorithm" in 2nd International Conference on Emerging Trends in Engineering & Technology (ICETET-09), at G.H.Raisoni College of Engineering, Nagpur, India, December 16-18, 2009.
- [18] Manoj Shukla, Aasheesh Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance Evaluation of MRC Diversity Scheme for Iterative IDMA Receivers" in INDICON 2009, to be held during December 18-20, 2009, at DA-IICT (Dhirubhai Ambani Institute of Information and Communication Technology), Gandhinagar. India.
- [19] Manoj Shukla, RCS Chauhan, Ruchir Gupta, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance Analysis of Tree Based Interleaver with Iterative IDMA Receivers using Optimum Power Allocation Algorithm" in First UK-India International Workshop on Cognitive Wireless Systems at IIT, Delhi during 11-12 Dec, 2009
- [20] Manoj Shukla, RCS Chauhan, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance Analysis of Tree Based Interleaver with IDMA Systems using Optimum Power Allocation Algorithm" in IEEE International Conference on Internet Multimedia Systems Architecture and Application "IMSAA 2009" in Bangalore, India, 9-11 December 2009.
- [21] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "MRC Diversity Technique with Optimum Interleaver for Iterative IDMA Receivers" in International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2010), to be held in Orlando, USA, April 6 - 9, 2010
- [22] Sushila Kamble, Suneeta Agarwal, Vinay Kumar Srivastava, Vikas Maheshkar, 'DCT based texture watermarking using GLCM', IEEE International Advance Computing Conference (IACC 2010),Patiala, February 19-20, 2010.

- [23] Sushila Kamble, Vikas Maheshkar, Suneeta Agarwal, Vinay Kumar Srivastava, 'Robust Multiple Watermarking Using Entropy Based Spread Spectrum", in Third International Conference on Contemporary Computing IIIT University, Noida, August 9-11, 2010
- [24] M.K. Hota and Vinay Kumar Srivastava, "Performance Analysis of Different DNA to Numerical Mapping Techniques for Identification of Protein Coding Regions Using Tapered Window Based Short-Time Discrete Fourier Transform," International Conference ICPCES, MNNIT Allahabad, India, 29 Nov.–01 Dec., 2010.
- [25] S. Gupta and Vinay Kumar Srivastava "An Accelerated Clustering Algorithm for Segmentation of Grayscale Images" in IEEE ICCCT 2011, September 15 - 17, 2011, Organized by M.N.N.I.T., Allahabad
- [26] Rajendra S Shekhawat, Sivavenkateswara Rao V, and Vinay Kumar Srivastava "A robust Watermarking Technique based on Bi-orthogonal Wavelet transform" in proceedings of the IEEE SCES, march 16-18, 2012, held at MNNIT, Allahabad, pp. 478-483.
- [27] Sivavenkateswara Rao V, Rajendra S Shekhawat, and Vinay Kumar Srivastava "A Reliable Digital Image Watermarking Scheme Based on SVD and Particle Optimization" in proceedings of the IEEE SCES, March 16-18, 2012, held at MNNIT, Allahabad, pp. 484-489.
- [28] Rajendra S Shekhawat, Sivavenkateswara Rao V, and Vinay Kumar Srivastava "A Bi-Orthogonal Wavelet Transform Based Robust Image Watermarking Scheme" in proceedings of the IEEE SCEECs, March 1-2, 2012, MANIT, Bhopal, pp. 240-243.
- [29] Sivavenkateswara Rao V, Rajendra S Shekhawat, and Vinay Kumar Srivastava "A DWT- DCT- SVD Digital Image Watermarking Scheme Using Particle Optimization" in proceedings of the IEEE SCEECs, March 1-2, 2012, held at MANIT, Bhopal, pp. 236-239.
- [30] Ramkrishna P. and Vinay Kumar Srivastava "A Simple De-blocking Method for Reduction of Blocking Artifacts" in proceedings of the IEEE SCEECs, March 1-2, 2012, held at MANIT, Bhopal.
- [31] N.H.V.L.P Kumar, and Vinay Kumar Srivastava "A Block Based Segmentation of JPEG Compressed Document images" in proceedings of the IEEE SCES, March 16-18, 2012, held at MNNIT, Allahabad, pp. 1-4.
- [32] Reena Singh and Vinay Kumar Srivastava, "Performance Comparison of Arithmetic and Huffman Coder Applied to EZW Codec" in proceedings of International Conference

International Conference on Power, Control and Embedded Systems (ICPCES 2012), M.N.N.I.T., Allahabad, India, 17-19, Nov., 2012.

- [33] Reena Singh and Vinay Kumar Srivastava “JPEG2000: A Review and its Performance Comparison with JPEG” in proceedings of International Conference International Conference on Power, Control and Embedded Systems (ICPCES 2012), M.N.N.I.T., Allahabad, India, 17-19, Nov., 2012.
- [34] Vikas Maheshkar, Suneeta Agarwal and Vinay Kumar Srivastava and Sushila Maheshkar, “Face Recognition using Geometric Measurements, Directional Edges and Directional Multiresolution Information”, 2nd International Conference on Communication, Computing & Security, Rourkela, Odisha, India. Published by Elsevier., October 06-08, 2012, pp. 939-946
- [35] Vikas Maheshkar, Suneeta Agarwal and Vinay Kumar Srivastava, Sushila Kamble, “Real Dual tree based Feature variance for Face Recognition”, International conference on soft computing for problem solving, Springer, Volume 1 Series: Advances in intelligent and Soft Computing, Vol. 130, December 20-22, 2012, pp. 637-647
- [36] Vikas Maheshkar, Suneeta Agarwal and Vinay Kumar Srivastava, Sushila Kamble “Feature Image Generation Using Energy Distribution for Face Recognition in Transform Domain”, International Conference on Computer Science and Information Technology , (CCSIT-2012), part II, LNCSIT 85, January 2-4, 2012, pp. 644-653
- [37] Vikas Maheshkar, Suneeta Agarwal, and Vinay Kumar Srivastava, Sushila Kamble, “DCT-based Unique Faces for Face Recognition using Mahalanobis Distance”, International Conference on Intelligent Interactive Technologies & Multimedia, IIIT Allahabad, ACM, Dec 27-30, 2010, pp. 202-205
- [38] Priyank Khare, Alok Kumar Verma, and Vinay Kumar Srivastava Digital image watermarking scheme in wavelet domain using chaotic encryption 05/2014 Engineering and Systems (SCES), 2014 IEEE Students Conference MNNIT Allahabad.
- [39] Falgun Thakkar and Vinay Kumar Srivastava, “Improved compressive sensing for grayscale images with zigzag scanning and block DCT” In IEEE proceeding of International conference on computer communication and control (ICCCC 2015), 10-12 Sept. 2015, Indore-MP. pp. 728 -731.
- [40] Tulika Bhuyan, Vinay Kumar Srivastava and Falgun Thakkar, “Shuffled SVD based Robust and Secure Digital Image Watermarking”, IEEE International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT 2016), 3-5 March 2016.

- [41] Vibha Verma, Vinay Kumar Srivastava and Falgun Thakkar,, “DWT-SVD based Digital Image Watermarking using Swarm Intelligence” IEEE International Conference on Electrical, Electronics and Optimization Techniques 2016. (ICEEOT 2016), 3-5 March 2016, Chennai, TN-India, 2016.
- [42] Tulika Bhuyan, Vinay Kumar Srivastava, and Falgun Thakkar, “Image Adaptive Watermarking using JAYA Optimization Algorithm” in International Conference on Computing Sciences (ICCS 2016), 8-9 April 2016, Jhalandhar-Punjab.
- [43] Sachin Gaur and Vinay Kumar Srivastava, “A Hybrid RDWT-DCT and SVD Based Digital Image Watermarking Scheme Using Arnold Transform” in 4th International Conference on Signal Processing and Integrated Networks (SPIN-2017), 2 - 3 Feb 2017, Amity University Noida , India
- [44] Sachin Gaur and Vinay Kumar Srivastava,“Robust Embedding of Improved Arnold Transformed watermark in digital Images using RDWT-SV” in 4th International Conference on Parallel, Distributed and Grid Computing(PDGC-2016), 22 - 24 Dec 2016 J P University Waknaghat Himanchal, India.
- [45] Sachin Gaur and Vinay Kumar Srivastava,“A Robust and Secure Block- SVD Based Embedding of Encrypted watermark in Digital Images Using RDWT” in International Conference on Advances in Computing and Data sciences(ICACDS-2016),11 - 12 Nov 2016, Krishna Engineering College Ghaziabad , India.
- [46] Manjot Singh Bilkhu , Samarth Gupta and Vinay Kumar Srivastava, Emotion Recognition from Facial Expressions using Cascaded Regression Trees and SVM) has been accepted in International Conference on Computational Intelligence: Theories, Applications and Future Directions to be held during December 6th - 8th, 2017 Indian Institute of Technology Kanpur, India
- [47] Amit Kumar Singh and Vinay Kumar Srivastava “Exon Prediction by Peaking Filter Implemented using FDA Toolbox”. First International Conference on Smart Technologies in Computer and Communication (SmartTech-2017). March 27-29 2017 Amity University Jaipur Rajasthan.
- [48] Priyank Khare and Vinay Kumar Srivastava “Robust Digital Image Watermarking Scheme Based on RDWT-DCT-SVD” 2018 5th International Conference on Signal Processing and Integrated Networks (SPIN) ISBN: 978-1-5386-3045-7. DOI: 10.1109/SPIN.2018.8474125.
- [49] Priyank Khare and Vinay Kumar Srivastava, “Image Watermarking Scheme using Homomorphic Transform in Wavelet Domain” in 5th IEEEUP Section International

Conference on Electrical, Electronics and Computer Engineering (UPCON-2018) held during Nov 2-4, 2018 at MMMUT Gorakhpur, Uttar Pradesh, India

- [50] Amit Kumar Singh and Vinay Kumar Srivastava, "Improved exon prediction technique by de-noising period 3 spectrum with SVD Algorithm" 5th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018) held during Nov 2-4, 2018 at MMMUT Gorakhpur, UP, India
- [51] Priyank Khare and Vinay Kumar Srivastava "An Efficient Image Watermarking Technique Based on IWT-DCT-SVD". First International Conference on VLSI, Communication and Signal Processing (VCAS 2018) held at ECED MNNIT Allahabad.
- [52] Ayush Nigam, Priyank Khare and Vinay Kumar Srivastava "Image compression Using hybrid approach and adaptive scanning for color images". First International Conference on VLSI, Communication and Signal Processing (VCAS 2018) held at ECED MNNIT Allahabad.
- [53] Priyank Khare and Vinay Kumar Srivastava, "Secure Image Watermarking Approach Using HT-AT" IEEE 2019 6th International Conference on Signal Processing and Integrated Networks (SPIN), held on 7-8 march 2019 at Noida, India, pp.547-551.
- [54] Priyank Khare and Vinay Kumar Srivastava "HT-IWT-DCT Based Hybrid Technique of Robust Image Watermarking". Second International Conference on VLSI, Communication and Signal Processing (VCAS 2019) held at ECED MNNIT Allahabad.
- [55] Ranjana Dwivedi and Vinay Kumar Srivastava Reversible Digital Image Watermarking scheme using Histogram Shifting Method, IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2021
- [56] Ranjana Dwivedi and Vinay Kumar Srivastava Geometrically Robust Digital Image Watermarking Based on Zernike Moments and FAST Technique, pp 671-680 Advances in VLSI, Communication, and Signal Processing: Select Proceedings of VCAS 2021
- [57] Ranjana Dwivedi and Vinay Kumar Srivastava, An Imperceptible and Robust image watermarking using RDWT and SVD in YCbCr color space, IEEE 9th Uttar Pradesh Section International Conference on Electrical Electronics and Computer Engineering (UPCON) 2022.
- [58] Divyanshu Awasthi, and Vinay Kumar Srivastava, Dual Image Watermarking using Hessenberg decomposition and RDWT-DCT-SVD in YCbCr color space, International Conference on Computing, Communication and Intelligent Systems (ICCCIS) Nov. 2022

- [59] Anurag Tiwari and Vinay Kumar Srivastava, A Chaotic Encrypted Reliable Image Watermarking Scheme based on Integer Wavelet Transform-Schur Transform and Singular Value Decomposition International Conference on Computing, Communication, and Intelligent Systems (ICCCIS) November 2022
- [60] Anurag Tiwari, Vinay Kumar Srivastava Integer Wavelet Transform and Dual Decomposition Based Image Watermarking scheme for Reliability of DICOM Medical Image, IEEE 9th Uttar Pradesh Section International Conference on Electrical Electronics and Computer Engineering (UPCON) 2022.
- [61] Divyanshu Awasthi, Priyank Khare and Vinay Kumar Srivastava, Multiple Image Watermarking in YCbCr Color Space Using Schur-SVD-DCT in Wavelet Domain and its authentication using SURF, 10th International Conference on Signal Processing and Integrated Networks (SPIN), March 2023
- [62] D. Awasthi, P. Khare and V. K. Srivastava, "Multiple Image Watermarking in YCbCr Color Space Using Schur-SVD-DCT in Wavelet Domain and its authentication using SURF," 2023 10th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 2023, pp. 192-197, doi: 10.1109/SPIN57001.2023.10116129.
- [63] P. Khare, D. Awasthi and V. K. Srivastava, "FISmark: Heritage Image Copyright Protection with FIS based Optimization," 2024 11th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 2024, pp. 433-438, doi: 10.1109/SPIN60856.2024.10511940.
- [64] A. Tiwari, D. Awasthi and V. K. Srivastava, "ECGWmark: Robust ECG Watermarking Based on IWT and Two-Level Decomposition for IoMT," 2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), Gautam Buddha Nagar, India, 2023, pp. 334-339, doi: 10.1109/UPCON59197.2023.10434758.
- [65] S. K. Ray, D. Awasthi and V. K. Srivastava, "An Optimized Image Watermarking Using Fuzzy with ROI-Based Image Enhancement," 2024 IEEE Students Conference on Engineering and Systems (SCES), Prayagraj, India, 2024, pp. 1-6, doi: 10.1109/SCES61914.2024.10652444.
- [66] A. K. Singh and V. K. Srivastava, "Digital Filter-Based Exon Prediction: Exploring the Reason why Cascading 2nd Order Moving Average Filter Directly with Anti-Notch Filter should be Avoided," 2024 4th International Conference on Artificial Intelligence and Signal Processing (AISP), VIJAYAWADA, India, 2024, pp. 1-6, doi: 10.1109/AISP61711.2024.10870655.

- [67] D. Awasthi, P. Khare and V. K. Srivastava, "OptRight: Optimized Copyright Protection of ROI of Medical Image," *2025 IEEE 9th International Conference on Information and Communication Technology (CICT)*, Chennai, India, 2025, pp. 1-5, doi: 10.1109/CICT67193.2025.11399217.
- [68] A. Tiwari, V. Birchha and V. K. Srivastava, "SFIWMark: Secure Fundus Image Watermarking Scheme for Smart Healthcare Applications," *2026 5th International Conference on Innovative Practices in Technology and Management (ICIPTM)*, Noida, India, 2026, pp. 1-7, doi: 10.1109/ICIPTM69057.2026.11465854.

(e) Research & Publications: Articles in proceedings (National)

- [1] Vinay Kumar Srivastava and G.C.Ray, "A new scheme for postprocessing of DCT coded images in DCT domain." in the proceedings of the Seventh National Conference on Communications NCC-2001, IIT Kanpur, pp. 310-314, January 27-28, 2001.
- [2] Vinay Kumar Srivastava and G. C. Ray, "A hybrid scheme for reducing blocking artifacts from DCT coded images." in the proceedings of the Seventh National Conference on Communications NCC-2001, IIT Kanpur, pp. 305-309, January 27-28, 2001.
- [3] Vinay Kumar Srivastava and K.S.R. Chowdary, "Low Power Implementation of FIR Filter Using Coefficient Segmentation and Ordering Algorithm" in All India Seminar on Advances in Product Development at Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India, February 17-18, 2006.
- [4] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Adaptive Equalization, A Review" in National Conference on Communication & Computational Techniques: Current and Future Trends, Dehradun, India, Feb. 10-12, 2006
- [5] M. K. Hota, Vinay Kumar Srivastava, "Digital Signal Processing method for identification of protein coding genes" in National conference on Intelligent Systems held during August 24-25, 2007.
- [6] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance analysis of IDMA based system using different Interleavers using Optimum Power Allocation Algorithm" in National Conference on Communication and Networks "NCCN 08" during March 27-28, 2008, at Longowal, India on page 28-27.
- [7] Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, "Performance analysis of IDMA based system based on Random Interleaver and Tree Based Interleaver using Optimum Power Allocation Algorithm" in National Conference on Communication and Networks "RABS 08", April 17, 27-28, 2008, Jaipur, page 89.

- [8] Vinay Kumar Srivastava and Susanta Kumar Tripathy, “An Implementation of Cordic Processor on FPGA Using VHDL” in National conf. on Information Technology trends in Engineering Applications, March 19-21, 2009 at Bangalore.
- [9] Manoj Shukla, Aasheesh Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, “Interleave Division Multiple Access Scheme: An Overview” in Proceedings of National Conference on Currents Trends in Technology, Nirma University, Ahmadabad, pp.350-355, 27-29 Nov., 2008.
- [10] Aasheesh Shukla, Rohit Kumar, Manoj Shukla, Vinay Kumar Srivastava, Sudarshan Tiwari, “CDMA 2000, W-CDMA, and IDMA : An Overview ” in Proceedings of National Seminar on Recent Advances on Information Technology “RAIT 2009” at I.S.M., Dhanbad, Feb. 6-7 2009.
- [11] Manoj Shukla, Aakanksha Dhaka, Vinay Kumar Srivastava, Sudarshan Tiwari, “Analysis of Various Orthogonal Interleavers with IDMA Scheme” in National Conference on Currents Trends in Technology, Ahmadabad, 25-27 Nov., 2009.