

BIO-DATA

1. Name : Dr. Ashutosh Datar
2. Date of Birth : 12th October, 1967
3. Nationality : Indian
4. Residential Address : A-4, Near VS Coaching classes, Rajeev Nagar,
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5. Official Address : Professor & Head,
Department of Electronics Engineering,
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College), Vidisha (M.P.) 464001
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6. Professional Experience : 32 Years Teaching Experience at Samrat Ashok
Technological Institute (Engg College), Vidisha (M.P.)

7. Educational Qualification

S. No.	Degree/ Specialization	Year of Passing & Division	Institute and University
i.	B.E. (Electronics & Instrumentation Engg.)	1989 First Division	Samrat Ashok Technological Institute (Engg College), Vidisha (M.P.), Barkatullah University, Bhopal MP
ii.	M. Tech (Biomedical Engineering)	1998 First Division	Institute of Technology (Now IIT Varanasi), Banaras Hindu University (BHU) Varanasi (UP)
iii	Ph.D. Biosignal processing	2012 --	Rajiv Gandhi State Technical University (RGPV), Bhopal MP

Memberships of Professional/ Academic Bodies

S. No.	Name of the Professionals / Learned Bodies / Societies	Membership No.
1	LM Indian Society of Technical Education (ISTE)	LM 1058
2	LM Biomedical Engineering Society of India (BMESI)	L540/ July 2001
3	LM Instrumentation Society of India (ISoI)	1037 / 22.04.2002
4	LM Indian Red Cross Society	4594 / 1993
5.	LM Institute of Engineers India (IEI)	M1238323
6.	LM National Biomedical Engineering Society	LM489/3.7.2002

Recent Publications in Journals:

1. A. Datar, A. Jain and P.C. Sharma, "Design of Kaiser window based optimized prototype filter for cosine modulated filter banks," *Signal Processing*, Elsevier, vol. 90, no. 5, pp. 1742 – 1749, May 2010. (ISSN: 0165-1684)
2. A. Datar, A. Jain and P.C. Sharma, "Design and Performance Evaluation of Optimized Cosine Modulated Filterbank for ECG Signal Compression," *CiiT International Journal of Digital Signal Processing*, vol. 2, no. 7, pp. 101 – 107, July 2010. (ISSN: 0165-1684)
3. A. Datar, A. Jain and P.C. Sharma, "Design and Performance Analysis of Adjustable Window Functions Based Cosine Modulated Filter Banks," *Digital Signal Processing*, Elsevier. vol. 23, no. 1, pp. 412 – 417, January 2013. (ISSN: 1051-2004).
4. S. Singh, and A. Datar, "EDGE Detection Techniques using Hough Transform," *International Journal of Emerging Technology and Advanced Engineering (IJETAE)*, vol. 3, no. 6, June, 2013, pp. 333 – 337. (ISSN: 2250-2459).
5. R.S. Raghuvanshi, and A. Datar, "Composite pseudocolring scheme using spiral method with ensuring same brightness," *International Journal of Engineering Trends and Technology (IJETT)*, vol. 4, no.7, pp. 2800-2805, July 2013. Paper id: IJETT-V4I7p209 (ISSN: 2231-5381).
6. S. Singh, and A. Datar, "An efficient Hash based Steganography technique for text message using color images," *International Journal of Computer Engineering & Technology (IJCET)*, vol. 4, no. 4, pp. 150-162, July 2013.(ISSN: 0976-6367)
7. Abhishek Jain, and A. Datar, "Spatial Video Compression using EZW, 3D-SPIHT, WDR & ASWDR Techniques," *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*, vol. 3, no. 7, pp. 1413 – 1420, Jul 2013. (ISSN: 2277- 128X)
8. Jayant Ghode, A. Datar, Classification of Skin Melanoma using ANN, *International Journal of Computer Applications*, Vol. 128, No. 10, pp. 21 – 26, October 2015 (ISBN: 973-93-80889-77-0, DoI: 10.5120/ijca2015906647).
9. Ankit Goswami, Ashutosh Datar, Frontal Enhanced Face Detection using Skin Pixels and ANN, *International Journal of Current Engineering and Technology*, Vol. 6, No. 1, pp. 1-4, February 2016 (E-ISSN: 2227-4106).
10. Sujata Mourya, Ashutosh Datar, and Shilpa Datar, Design of direction oriented filters using McClellan Transform for edge detection, *International Journal of Current Engineering and Technology*, Vol. 6, No.2, pp. 446 – 450, March 2016 (E-ISSN: 2227-4106).

11. Laxmi Narayan Soni, Dr. Ashutosh Datar, and Prof. Shilpa Datar, Viola-Jones Algorithm Based Approach for Face Detection of African Origin People and Newborn Infants, International Journal of Computer Trends and Technology (IJCTT), Vol. 51, No. 2, pp. 75 – 81, September 2017 (ISSN: 2231-2803).
12. Laxmi Narayan Soni, Ashutosh Datar and Shilpa Datar, Implementation of Viola-Jones Algorithm Based Approach for Human Face Detection, International Journal of Current Engineering and Technology (IJCET), Vol.7, No.5, pp. 1819 – 1823, Sept/Oct 2017, E-ISSN 2277 – 4106.
13. Poorvi Hedau, Shilpa Datar and Ashutosh Datar, Recognition of License Number Plate using a Template Matching Technique, International Journal of Current Engineering and Technology (IJCET), Vol.7, No.5, pp. 1901 – 1905, Sept/Oct 2017, E-ISSN 2277 – 4106.
14. Abishek Jain, P. Swami, A. Datar, "Dimension Adaptive Hybrid Recovery with Collaborative Group Sparse Representation based Compressive Sensing for Color Images", International Journal of Nanotechnology (IJNT), Inderscience Publishers, 20 (1-4), 361-389, 2023
15. A Jain, PD Swami, A Datar, A truncated patch-group-based hierarchical reconstruction model for color image compressive sensing, Soft Computing, pp1-15, 2023
16. S Sharma, B Singh, A Datar, Duty ratio control technique with torque ripple minimization for induction motor-based electric vehicle applications, Journal of Power Electronics 23 (4), pp. 617-624, 2023
17. A Jain, PD Swami, A Datar, Dimension adaptive hybrid recovery with collaborative group sparse representation based compressive sensing for colour images, International Journal of Nanotechnology 20 (1-4), 361-389, 2023
18. A Jain, PD Swami, A Datar, An Improved Patch-Group-Based Sparse Representation Method for Image Compressive Sensing, Data Intelligence and Cognitive Informatics: Proceedings of ICDICI 2022, 283-294, 2022
19. S Sharma, B Singh, A Datar, A review on direct torque control strategies in induction motor drives for electric vehicle applications, 2023 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp 1-8, 2023
20. Munna Lal Jatav, Ashutosh Datar, Leeladhar Malviya, Resource Optimization using Improved Genetic Algorithm for Device-to-Device Communication Under Cellular Network, IEEE 11th

International Conference on Communication Systems and Network Technologies (CSNT), pp 499-503, 2022

21. Munna Lal Jatav, Ashutosh Datar, Leeladhar Malviya, Optimization of resource and energy utilization in device-to-device communication under cellular network, Intelligent Sustainable Systems: Selected Papers of WorldS4 2021, Volume 2, pp 729-739, Springer Singapore, 2021

Book Chapters Published

Abhishek Jain, Preeti D. Swami, Ashutosh Datar, "An improved Patch-Group based Sparse Representation method for Image Compressive Sensing" Book series: Algorithms for Intelligent Systems, Springer, 2022.

Area of Interest - Signal Processing, Image Processing, Machine Learning, Embedded Systems, Biomedical Engineering and applications.

8. Total No. of Ph.D. candidates registered: 06