

Curriculum Vitae

I am Dr. Anirban Dasgupta, an Assistant Professor in the Department of Electronics and Electrical Engineering at the Indian Institute of Technology (IIT) Guwahati. I am also affiliated with the Department of Design and the Centre for Intelligent Cyber-Physical Systems (CICPS) at IIT Guwahati. My research lies at solving smart city problems in tracks including smart healthcare, smart transportation and smart education. The domain of smart healthcare lies at the intersection of developing solutions and medical science and technology, with a focus on intelligent healthcare systems, biomedical signal and image processing, AI-driven diagnostics, and smart sensing technologies for clinical and real-world health applications. In addition, I serve as the Faculty Placement Representative for the EEE Department and the Convenor of the Signal Processing and Machine Learning (SPML) group. I am also an Editorial Board Member of Scientific Reports (Nature Portfolio).



Personal Information

Name: Dr. Anirban Dasgupta

Address (Permanent): C/o Mr. Asoke Kumar Dasgupta, Holding no. 139, Ward 01, Inda, near Sarbani Apartment, Kharagpur, West Midnapore, West Bengal, India, 721305

Present Address: Room No. 307, EEE Department, IIT Guwahati, North Guwahati, Assam, India, 781039

Date of Birth: 18th February, 1988

Gender: Male

Marital Status: Married

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Research Areas

Machine Learning, Signal and Image Processing, Internet of Things, and Embedded Systems, with applications in Medical Science and Technology, including Intelligent Healthcare Systems, Biomedical Signal and Image Analysis, AI-driven Diagnostics, Wearable and Remote Health Monitoring, and Smart Healthcare Infrastructure, along with interdisciplinary extensions to Smart Transportation, Smart Education, and Smart Aquatics.

Academic Qualifications

Degree	Year	Discipline	University/ Board	Institution/ Board	% of marks/ CGPA
PhD	2019	Electrical Engineering (Supervisor: Prof. Aurobinda Routray)	Indian Institute of Technology (IIT) Kharagpur		
MS	2014	Electrical Engineering	IIT Kharagpur		9.14
BTech	2010	Electrical Engineering	National Institute of Technology (NIT) Rourkela		8.21
12th	2006	Science	Indian School Certificate (ISC)		89.75%
10th	2004	General	Indian Certificate of Secondary Education (ICSE)		92.2%

Work Experience

S. No.	Positions held	Name of the Institute / Organization	From	To	Remarks
1	Director and Chief Technical Officer	Humosys Technologies Private Limited	02-01-2019	16-07-2021	Start-up incubated at STEP, IIT Kharagpur
2	Experienced Data Scientist	Boeing India Private Limited	19-07-2021	16-11-2021	
3	Assistant Professor	EEE Dept, IIT Guwahati	27-12-2021	Present day	Upto Oct '22 in Grade-II, thereafter in Grade-I

Teaching Experience

Undergraduate Level

Course	Times Offered	Remarks
Data Structures and Algorithms (Theory)	5	EE390
Data Structures and Algorithms (Laboratory)	5	EE390
Basic Electronics (Tutorial)	2	EE101
Embedded Systems (Laboratory)	3	EE320

Postgraduate Level

Course	Times Offered	Remarks
Signal Processing Algorithms and Architectures (Theory)	3	EE520
Design of Embedded Systems (Theory)	2	DD552
Design of Embedded Systems (Laboratory)	2	DD552 Laboratory
Robot Sensing and Vision (Theory)	2	RA505; jointly with Dr. Rishikesh Kulkarni and Dr. Ravindra Kumar Jha
Artificial Intelligence (Theory)	3	RA502; jointly with Prof. Samarendra Dandapat (once)
Artificial Intelligence (Laboratory)	3	RA502 Laboratory
Applied Signal and Image Processing	1	EE604
Pattern Recognition and Machine Learning	1	EE5336

NPTEL/MOOC/SWAYAM/Equivalent

Course	Duration
Signal Processing Algorithms and Architectures (NPTEL)	4 weeks

Research Supervision

Category	On-going	Completed
PhD (Single guidance)	3	–
PhD (Joint supervision)	6	–
M.Tech (Single guidance)	7	3
M.Tech (Joint supervision)	11	3

Journal Publications

Publications in SCI Journals

1. S. Naragoni, A. Dasgupta, and P. R. Muduli, “DARL-Net: Deformable-asymmetric residual learning and learnable non-local attention-based low-dose CT image denoising,” *Physica Medica*, vol. 148, Art. no. 105874, 2026.
2. R. Gautam and A. Dasgupta, “LumiRoadGAN: Adaptive Generative Adversarial Network for Dark-to-Bright Road Image Translation,” *IEEE MultiMedia*, pp. 1–11, 2026.
3. H. Mattoo, A. Dasgupta, J. G. Sreenath, and P. Tripathy, “Data-driven gradient optimization-based approach for robust distribution system state estimation,” *Sustainable Energy, Grids and Networks*, vol. 46, Art. no. 102267, 2026.
4. A. Dasgupta, “Current Internet of Things technology for smart cities,” *IEEE Instrumentation & Measurement Magazine*, vol. 28, no. 6, pp. 3–11, 2025.
5. A. Dasgupta and A. Basu, “Measurement and instrumentation for mental stress detection in humans,” *IEEE Instrumentation & Measurement Magazine*, vol. 28, no. 2, pp. 10–17, 2025.

6. R. I. Mazumdar, A. Dasgupta, R. Gautam, P. Bhowmick, and N. Rudra, "Instrumentation methodologies for car accident prevention," *IEEE Instrumentation & Measurement Magazine*, vol. 28, no. 2, pp. 40–50, 2025.
7. A. Dasgupta and R. Mukherjee, "A review of instrumentation for lung volume estimation for diagnosis of pulmonary disorders," *IEEE Instrumentation & Measurement Magazine*, vol. 28, no. 6, pp. 12–20, 2025.
8. R. I. Mazumdar, A. Dasgupta, S. P. Chowdhury, and P. Bhowmick, "Exploring recent trends in transfer learning strategies: A case study on eye localization and eye state classification," *IEEE Computer*, vol. 58, no. 2, pp. 10–17, 2025.
9. N. Saidulu, P. R. Muduli, and A. Dasgupta, "RHLNet: Robust hybrid loss-based network for low-dose CT image denoising," *IEEE Transactions on Instrumentation and Measurement*, vol. 73, pp. 1–11, 2024.
10. A. Dasgupta and A. Routray, "Piecewise empirical mode Bayesian estimation: A new method to denoise electrooculograms," *Biomedical Signal Processing and Control*, vol. 70, Art. no. 102945, 2021, doi: 10.1016/j.bspc.2021.102945.
11. S. Chakraborty, A. Dasgupta, and A. Routray, "Localization of eye saccadic signatures in electrooculograms using sparse representations with data-driven dictionaries," *Pattern Recognition Letters*, vol. 139, pp. 104–111, 2020, doi: 10.1016/j.patrec.2017.11.001.
12. S. Bhattacharya, A. Dasgupta, and A. Routray, "Multi-directional local adjacency descriptors (MD-LAD) for heterogeneous face recognition," *IET Image Processing*, vol. 14, pp. 982–994, 2019.
13. A. Dasgupta, S. M. Bhattacharya, and A. Routray, "A system for non-contact estimation of cognitive load using ocular parameters based on a serio-parallel computing framework," *IEEE Transactions on Cognitive and Developmental Systems*, vol. 11, pp. 450–459, 2019.
14. A. Dasgupta, D. Rehman, and A. Routray, "A smartphone-based drowsiness detection and warning system for automotive drivers," *IEEE Transactions on Intelligent Transportation Systems*, vol. 20, pp. 4045–4054, 2018.
15. A. Basu, A. Dasgupta, A. Thyagarajan, A. Routray, R. Guha, and P. Mitra, "A portable personality recognizer based on affective state classification using spectral fusion of features," *IEEE Transactions on Affective Computing*, vol. 9, pp. 330–342, 2018.
16. A. Dasgupta, S. Chakraborty, and A. Routray, "A two-stage framework for denoising electrooculography signals," *Biomedical Signal Processing and Control*, vol. 31, pp. 231–237, 2017.
17. A. Sengupta, A. Dasgupta, A. Chaudhuri, A. George, A. Routray, and R. Guha, "A multimodal system for assessing alertness levels due to cognitive loading," *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 25, pp. 1037–1046, 2017.
18. A. Dasgupta, A. George, S. L. Happy, and A. Routray, "A vision based system for monitoring the loss of attention in automotive drivers," *IEEE Transactions on Intelligent Transportation Systems*, vol. 14, pp. 1825–1838, 2013.

Publications in Non-SCI Journals

19. A. Dasgupta, "Ocular diagnostics using electrooculography: Recent trends, challenges, and future directions," *IEEE Potentials*, vol. 44, no. 2, pp. 24–31, 2025.
20. A. Dasgupta, "From doctoral research to entrepreneurship: A case study in bridging academia and entrepreneurship," *Journal of Global Entrepreneurship Research*, vol. 15, no. 1, pp. 21–30, 2025.

21. A. Dasgupta, A. George, S. L. Happy, A. Routray, and T. Shanker, “An on-board vision-based system for drowsiness detection in automotive drivers,” *International Journal of Advances in Engineering Sciences and Applied Mathematics*, vol. 5, pp. 94–103, 2013.

Book Chapters

1. A. Dasgupta, S. Bhattacharya, A. Sengupta, and A. Paul, “Disease Classification Through Advanced Neural Networks,” in *Cutting-edge Computational Intelligence in Healthcare with Convolution and Kronecker Convolution-based Approaches*, Elsevier, 2025.
2. S. Bhattacharya, A. Dasgupta, A. Sengupta, and K. Dutta, “Fundamentals of Convolutional Neural Networks (CNN),” in *Cutting-edge Computational Intelligence in Healthcare with Convolution and Kronecker Convolution-based Approaches*, Elsevier, 2025.
3. R. Gautam, A. Dasgupta, A. D. Jaiswal, and D. Sharma, “Classification of Driving Condition Images for Semi-Autonomous Vehicles Through Data Augmentation and Transfer Learning,” in *Current Progress in Engineering Sciences: Select Papers of RIC 2024*, Springer Nature Singapore, 2025, doi: 978-9819687527.
4. R. I. Mazumdar, V. Chaurasia, A. Dasgupta, and P. Bhowmick, “Portable Health Monitor for Car Drivers through Contact and Non-Contact Sensors,” in *Current Progress in Engineering Sciences: Select Papers of RIC 2024*, Springer Nature Singapore, vol. 1, 2025, doi: 978-9819687527.
5. A. Dasgupta, A. Das, P. Deka, and S. Das, “Smart Cabin for Office using Embedded Systems and Sensors,” in *Smart Embedded Systems Advances and Applications*, CRC Press, Taylor and Francis Group, pp. 360, 2023, doi: 9781032628059.
6. A. Sengupta, A. George, A. Dasgupta, A. Chaudhuri, B. Kabi, and A. Routray, “Alertness Monitoring System for Vehicle Drivers using Physiological Signals,” in *Handbook of Research on Emerging Innovations in Rail Transportation Engineering*, IGI Global, pp. 273–311, 2016.

Publications in Conference Proceedings

1. I. Vishnudatta, A. Dasgupta, and M. Bhatt, “A Physics Informed Depth Aware Morphological Neural Network for Pulmonary Disease Diagnosis,” in *Proc. IEEE Global Conference (GCON)*, 2026.
2. M. Gogoi, A. Dasgupta, and A. Basu, “Stress Identification from Facial Thermal Images using FTS-Net,” in *Proc. IEEE Global Conference (GCON)*, 2026.
3. K. M. Koppam, R. I. Mazumdar, R. Choudhury, and A. Dasgupta, “Driver health monitoring through multi-sensor signal estimation for detecting fever, tachycardia, bradycardia, hypoxia and stress,” in *Proc. 4th IEEE Conference on Applied Signal Processing (ASPCON)*, pp. 83–88, 2025.
4. H. Mattoo, M. M. Sheikh, A. Dasgupta, S. J. G., and P. Tripathy, “Enhanced gradient-optimized tree boosting approach for distribution system state estimation considering non-Gaussian colored noise,” in *Proc. 4th International Conference on Power Systems and Electrical Technology (PSET)*, Japan, IEEE, 2025.
5. R. I. Mazumdar, A. Dasgupta, and P. Bhowmick, “PhantomNet: A lightweight convolutional network for distraction detection in automotive drivers,” in *Proc. 28th IEEE Intelligent Transportation Systems Conference (ITSC)*, Gold Coast, Australia, pp. 4109–4114, IEEE, 2025. (A*)
6. A. Dasgupta, A. Sengupta, and A. Das, “Few-shot glaucoma classification from fundus images using meta-learning models,” in *Proc. 7th International Conference on Signal Processing, Computing and Control (ISPCC)*, pp. 70–74, IEEE, 2025.

7. A. Dasgupta, K. Jain, and R. Mukherjee, "Attention mechanism for pulmonary disease detection in X-ray images," in *Proc. 7th International Conference on Signal Processing, Computing and Control (ISPPCC)*, pp. 168–172, IEEE, 2025.
8. R. I. Mazumdar, A. Dasgupta, and P. Bhowmick, "SafeDriveMetrics: A comprehensive database for visual, cognitive, and manual distractions using a driving simulator," in *Proc. 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC)*, pp. 704–709, IEEE, 2025.
9. R. Gautam, S. S. Manchare, and A. Dasgupta, "Improving detection of Indian traffic signs and signals in low-light conditions through YOLOv9 and generative adversarial networks," in *Proc. 21st IEEE India Council International Conference (INDICON)*, pp. 1–6, IEEE, 2024.
10. A. Dasgupta, A. Sengupta, and S. Bhattacharya, "Optic atrophy classification from fundus images with few-shot learning," in *Proc. 27th International Conference on Pattern Recognition (ICPR)*, pp. 362–374, 2024. (A*)
11. S. Bhattacharya, A. Sengupta, and A. Dasgupta, "QDFCS: A comprehensive database for visual-sketch correspondence in forensic facial identification," in *Proc. International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, 2024.
12. S. Jain, S. Jain, A. Dasgupta, A. Sengupta, and S. Bhattacharya, "Improving education for visually challenged students through image captioning and automated reading," in *Proc. International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, 2024.
13. A. Basu, A. Dasgupta, A. Routray, and P. Mitra, "FVINet: Translating thermograms to facial vasculature imprints," in *Proc. 10th International Conference on Pattern Recognition and Machine Intelligence (PReMI)*, pp. 783–790, 2023.
14. A. Basu, A. Dasgupta, A. Routray, and P. Mitra, "Anisotropic diffusion based contrast enhancement of frontal facial thermograms to extract the facial vasculature," in *Proc. IEEE Global Conference (GCON)*, 2023.
15. A. Dasgupta, S. Chakraborty, A. Sengupta, and A. Routray, "Active sensors for the acquisition of physiological signals," in *Proc. IEEE Sensors Conference*, India, pp. 1–3, 2018. (A*)
16. S. Chakraborty, A. Dasgupta, P. Dash, and A. Routray, "Development of a wireless wearable electrooculogram recorder for IoT-based applications," in *Proc. 26th IEEE International Symposium on Industrial Electronics (ISIE)*, pp. 1991–1995, IEEE, 2017. (A*)
17. A. Dasgupta, S. Chakraborty, P. Mondal, and A. Routray, "Identification of eye saccadic signatures in electrooculography data using time-series motifs," in *Proc. IEEE INDICON*, pp. 1–5, IEEE, 2016.
18. A. Dasgupta, S. Bhattacharya, and A. Routray, "SPECFACE: A dataset of human faces wearing spectacles," in *Proc. IEEE Students' Technology Symposium*, pp. 289–293, 2016.
19. S. Bhattacharya, A. Dasgupta, and A. Routray, "Robust face recognition of inferior quality images using local Gabor phase quantization," in *Proc. IEEE Students' Technology Symposium*, pp. 294–298, 2016.
20. A. Dasgupta, A. Mandloi, A. George, and A. Routray, "An improved algorithm for eye corner detection," in *Proc. IEEE International Conference on Signal Processing and Communications*, pp. 1–4, 2016.
21. A. Dasgupta, S. Chakraborty, A. Chaudhuri, and A. Routray, "Evaluation of denoising techniques for EOG signals based on SNR estimation," in *Proc. IEEE International Conference on Systems in Medicine and Biology*, pp. 152–156, 2016.
22. S. Chakraborty, A. Chaudhuri, A. Dasgupta, and A. Routray, "Determining ocular gaze point fixation captured during triggered full saccades using EOG," in *Proc. IEEE International Conference on Systems in Medicine and Biology*, pp. 105–108, 2016.

23. A. Chaudhuri, A. Dasgupta, A. Routray, and S. Chakraborty, "A low-cost, wearable, portable EOG recording system," in *Proc. IEEE International Conference on Systems in Medicine and Biology*, pp. 102–105, 2016.
24. A. Basu, A. Dasgupta, and A. Routray, "A thermographic method for the detection of respiratory alkalosis," in *Proc. IEEE International Conference on Systems in Medicine and Biology*, pp. 26–30, 2016.
25. S. L. Happy, A. Dasgupta, P. Patnaik, and A. Routray, "Automated alertness and emotion detection for empathic feedback during e-learning," in *Proc. IEEE International Conference on Technology for Education*, Kharagpur, India, pp. 47–50, 2013.
26. S. L. Happy, A. Dasgupta, A. George, and A. Routray, "A video database of human faces under near infra-red illumination for human computer interaction applications," in *Proc. 4th IEEE International Conference on Intelligent Human Computer Interaction*, Kharagpur, India, 2012.
27. A. Chaudhuri, A. Dasgupta, A. Routray, and S. Chakraborty, "Video and EOG based investigation of pure saccades in human subjects," in *Proc. 4th IEEE International Conference on Intelligent Human Computer Interaction*, Kharagpur, India, 2012.
28. M. Singhvi, A. Dasgupta, and A. Routray, "A real time algorithm for detection of spectacles leading to eye detection," in *Proc. 4th IEEE International Conference on Intelligent Human Computer Interaction*, Kharagpur, India, pp. 1–6, 2012.
29. S. Gupta, A. Dasgupta, and A. Routray, "Analysis of training of parameters in Haar-like features to detect human faces," in *Proc. IEEE International Conference on Image Information Processing*, Shimla, India, pp. 1–4, 2011.

Patents

1. A. Dasgupta, P. Bhowmick, C. Bhawal, P. A. Boruah, D. Jyoti, V. N. Deka, P. Puligadda, and H. Sarkar, "Remotely controlled underwater vehicle for trash detection," Design Patent, Application No. 482019-001, Published Nov. 28, 2025. **(Granted)**
2. A. Dasgupta and A. Routray, "System and method for monitoring drowsiness of one or more operator individuals of industrial equipments/means/process and like," Indian Patent, Application No. 201831004156 A, Filed Feb. 3, 2018, Published Aug. 9, 2019, International Classification: B60K28/00. **(Granted)**
3. S. B. Singh, U. Panjwani, K. Ray, K. Kishore, L. Thakur, J. P. Anand, S. Kumar, V. Jain, K. Roy, A. Routray, R. Guha, A. Dasgupta, S. Chakraborty, and A. Chaudhuri, "Fatigue monitoring system," Indian Patent, Application No. 201711043780 A, Filed Dec. 6, 2017, Published July 5, 2019, International Classification: B60W40/08. **(Granted)**
4. A. Routray, A. Dasgupta, S. Chakraborty, and C. Sakpal, "An apparatus for classifying the state of alertness of a locomotive pilot," Indian Patent, Application No. 201831003743A, Filed Mar. 1, 2018, Published Sept. 6, 2019, International Classification: B60K28/00.
5. A. Routray, A. Dasgupta, A. George, and S. L. Happy, "A system for real time assessment of level of alertness," Indian Patent, Application No. 634/KOL/2013 A, Filed May 30, 2013, Published Dec. 5, 2014, International Classification: B60K28/00.

List of Projects Undertaken

Serial No.	Title	Role	Funding Agency	Duration	Amount
1	SCO - Smart Cabin for Office for monitoring well-being of office staffs as well as ambience	PI	IITG Startup Grant	2022–23	4.85 lakhs INR
2	Design and Development of a Robotic Vision System for Underwater Trash Detection using Subsea Inpainting and Textual Artifact Analysis	PI	TIH-TIDF, IITG	2024–25	15 lakhs INR
3	Design and Development of a Motion Planning and Control Scheme for an AUV Swarm with Application to Underwater Surveillance	Co-PI	TIH-TIDF, IITG	2024–25	18 lakhs INR
4	Path Rakshak (Guardian of the Road) – A System for Enhancing Public Transport Safety with Real-time Ambience and Driver Monitoring	PI	iHub TIH, IIT Mandi	2025–27	115.2 lakhs INR (23.8 lakhs IITG share)
5	Trackside Underframe Inspection & Hotbox Alert System for Coaching & Freight Stock at Kamakhya Station	PI	NF Railways	2026–27	138.23 lakhs INR

Guest Lectures and Speaking Engagements

1. Guest Lecture in online mode on ‘Python Fundamentals’ organized by Electronics and ICT Academies, Ministry of Electronics and Information Technology (MeitY), Government of India on 28/07/2025.
2. Guest Lecture in online mode on ‘AI for Teaching and Learning’ organized by Electronics and ICT Academies, Ministry of Electronics and Information Technology (MeitY), Government of India on 18/08/2025.
3. Guest Lecture in online mode on ‘Fundamentals of Image Processing’ organized by Electronics and ICT Academies, Ministry of Electronics and Information Technology (MeitY), Government of India on 08/09/2025.
4. Guest Lecture in online mode on ‘Image-to-Image Translation with Generative AI’ organized by Electronics and ICT Academies, Ministry of Electronics and Information Technology (MeitY), Government of India on 09/09/2025.
5. Guest Lecture on ‘Introduction to AI/ML’ organized by Electronics and ICT Academies, Ministry of Electronics and Information Technology (MeitY), Government of India, at Technology Incubation Centre, IIT Guwahati on 15/09/2025.
6. Invited Talk on ‘Application of Computer Vision in Drones’ at the Advance Training Program on FPV Drones for Defence Forces organized by TIH, IIT Guwahati on 10/09/2025.
7. Guest Lecture on ‘Introduction to AI’ organized by TIH and TIDF, IIT Guwahati at TIDF, IIT Guwahati on 21/07/2025.
8. Lecture on ‘ML Basics I’ delivered in the Summer School on Language and Vision with AI/ML (LAVA 2025), IIT Guwahati on 01/07/2025.
9. Lecture on ‘Vision Modelling I’ delivered in the Summer School on Language and Vision with AI/ML (LAVA 2025), IIT Guwahati on 03/07/2025.
10. Lecture on ‘Programming for AI’ in the AI-Workshop for School Teachers organized at IIT Guwahati on 14/05/2025.

11. Invited Talk on ‘Smart Cars Enabling Driver Safety’ organized by the Department of CSE, IIT Guwahati on 26/02/2025.
12. Lecture on ‘Introduction to Machine Learning’ delivered in the Winter School on Deep Learning for Vision and Language Modeling at the Multimedia Lab, Department of CSE, IIT Guwahati on 07/01/2025.
13. Lecture on ‘Convolutional Neural Networks II’ delivered in the Winter School on Deep Learning for Vision and Language Modelling at the Multimedia Lab, Department of CSE, IIT Guwahati on 08/01/2025.
14. Invited Talk on ‘Ensemble Learning: Harnessing the Power of Multiple Models’ delivered in the workshop on Role of AI/ML in Electrical, Electronics, and Biomedical Engineering Applications (RAEEBEA-2024), NIT Rourkela, in online mode on 08/11/2024.
15. Delivered 4-hour online lectures for four batches in the Times Pro and IIT Delhi Online Certification Programme on ML and DL.
16. Online Lecture on ‘Supervised Learning’ organized by IISER Bhopal on 27/09/2024.
17. Guest Lecture in online mode on ‘Signal Processing and Machine Learning Approaches for Electrooculography Signals’ organized by IEEE SPS Student Branch, IIT Kharagpur, 2021.
18. Guest Lecture on ‘Signal Processing and Machine Learning Approaches for Electrooculography Signals’ organized by NIT Rourkela, 2021.
19. Speaker on ‘The Correct Approach to Machine Learning’ in the Faculty Development Programme ”Ability and Inability of AI” conducted by AICTE, 2021.
20. Keynote Speaker for Impact Lecture Sessions on ‘Frugal Engineering and Social Enterprise’ under the MHRD Innovation Cell Forum, 2020.
21. Talk on ‘Indexing and Impact Factor Analysis’ in AICTE-sponsored Online Short-Term Training Programme on ”Research Paper Writing and Publication” organized by Gandhi Institute for Technology, Bhubaneswar, 2020.
22. Talk on ‘Introduction to Smart Sensors’ in AICTE-sponsored Online Faculty Development Programme organized by the Department of Electrical Engineering, Gandhi Institute for Technology, Bhubaneswar, 2020.
23. Speaker on ‘Role of Artificial Intelligence in Geriatrics’ at the Indian Ageing Congress (GERICON), All India Institute of Medical Sciences (AIIMS), New Delhi, 2017.
24. Talk on ‘Embedded Systems’ organized by the Advanced VLSI Design Laboratory, IIT Kharagpur, 2015.
25. Talk on ‘Professional Workshop on MATLAB’ organized by the Electrical Engineering Society, IIT Kharagpur, 2015.

Achievements

- Young Faculty Excellence in Teaching Award 2026 at IIT Guwahati.
- Best Paper Award in the Fourth International Conference on Emerging Frontiers in Electrical and Electronic Technologies at the National Institute of Technology Patna
- Best Poster Award in MS category, Department of Electrical Engineering, IIT Kharagpur, 2013
- Finalist, Intel IEC Intel India, 2012
- First Prize Award in Paper Presentation at Tech Fest (Confluence), NIT Rourkela, 2009

- Shortlisted for the Final Round of Young Faculty Excellence in Teaching (YFET 2025) Awards at IIT Guwahati.

Additional Information

1. Editorial Team Member of *Scientific Reports*, Nature, joined in September 2025.
2. Book proposal by Dr. Anirban Dasgupta and Mr. Rahimul I. Mazumdar, titled “Comprehensive Guide to Digital Signal Processing: Principles, Algorithms, Applications, and Architectures” has been approved for publication by CRC Press, Taylor & Francis Group.
3. Recorded NPTEL lectures for 4 weeks (10 hours) on “Signal Processing Algorithms and Architectures” available at <https://www.youtube.com/watch?v=m33Gcu5dzZQ&list=PLwdnz1V3ogoVwzCwpTuuwLmH08JfEb8QL&index=24>.
4. Examiner of a PhD Thesis from IIT Bombay.
5. Recorded 12-hour lecture series for the Online M.Tech. Programme on Robotics and Artificial Intelligence (course RA502).
6. Introduced the course EE604 - “Applied Signal and Image Processing” (approved by the Senate) at IIT Guwahati.
7. Expert/Mentor at the Gandhi Institute for Technology under the National Innovation Startup Policy Cell (MHRD initiative).
8. Served as the Departmental Representative in the Research Scholars Council, IIT Kharagpur (2017-2018) during PhD.

Declaration

I hereby declare that all the statements made herein are true to the best of my knowledge and belief.

Anirban Dasgupta

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