

Pranabjyoti Haloi
Designation: Associate Professor
Electrical Engineering Department
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Qualifications:

Perusing PhD (Electronics and Electrical Engineering Department, Indian Institute of Technology). MTech. (Electronics Design and Technology), B. E. (Electrical Engineering)

Publications

Publication: International Journals

1. **Pranabjyoti Haloi**, M.K. Bhuyan, Dibyajyoti Chatterjee, and Pooja Rani Borah, “Unsupervised Story Segmentation and Indexing of Broadcast News Video”, Multimedia Tools and Applications, Springer, September, 2021. <https://doi.org/10.1007/s11042-021-11490-y>
2. Mridushmita Borborah, **Pranabjyoti Haloi**, Pranjal Jyoti Hazarika, “Low-cost E-nose: To identify and study the ripeness of fruit” ; International Journal of Advance Research, Ideas and Innovations in Technology, ISSN: 2454-132X Impact factor: 4.295 (Volume 4, Issue 3), 2018
3. Prarthana Priyadarsini, **P Haloi**, “Designing of Automated CAD System for Neoplastic Breast Mass Detection” International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 4, Issue 6, June 2015
4. International Journal of Industrial Electronics and Electrical Engineering, ISSN(p): 2347-6982, ISSN(e): 2349-204X Volume-7, Issue-9, Sep.-2019, <http://ijieeee.org.in> Broadcast News Video Shot Detection and Segmentation 57 BROADCAST NEWS VIDEO SHOT DETECTION AND SEGMENTATION 1KUMKUM NARZARY, **2PRANABJYOTI HALOI**

Publication: International Conferences

1. **Pranabjyoti Haloi**, Arnab Kisor Bordoloi, and M.K. Bhuyan, “Unsupervised Broadcast News Video Shot Segmentation and Classification”, 2nd international conference on innovations in electronics, signal processing and communication (IESC), pp.1-5, March 1-2, 2019.
2. **Pranabjyoti Haloi**, Prathik Gadde, and M.K. Bhuyan, “News Video Indexing and Story Unit Segmentation using Text Cue”, IEEE international Conference on Wireless

Communications, Signal Processing and Networking (WiSPNET 2019), pp.1-7, March 21-23, 2019.

3. P. Haloi, M. K. Bhuyan, P. R. Borah and D. Chatterjee, "A Novel Algorithm for Shot Boundary Detection and Segmentation of Broadcast News Videos," *2020 International Conference on Computational Performance Evaluation (ComPE)*, 2020, pp. 751-756, doi: 10.1109/ComPE49325.2020.9200047.
4. P. Haloi and M. K. Bhuyan, "Video Searching and Retrieval using Scene Classification in Multimedia Databases.," *2021 2nd International Conference for Emerging Technology (INCET)*, 2021, pp. 1-7, doi: 10.1109/INCET51464.2021.9456317.
5. Haloi, P., Bhuyan Edge Based Video Clip Searching and Retrieval in Broadcast News Videos, *2022 International Conference for Advancement in Technology ICONAT 2022*, 21st -22nd Jan 2022, Hotel Double Tree Hilton GOA
6. P. Haloi, Nandita Medhi. "An Optimal Controller Design of Electro Hydraulic Position Servo System using Ziegler-Nichols Method and Genetic Algorithm" International conference on Advanced Electrical and Electronics Engineering (ICAEEE) 05th August, 2022

Organized- Training/Workshop/Conferences

1. Signal Processing, Image Processing, Computer Vision and Application; Jorhat Engineering College, 2 Days, (26/03/18 to 27/03/18), TEQIP-III
2. Multimedia Signal Processing and Selected Topics on Control System; Jorhat Engineering College, 2 weeks (23/07/2018 to 03/08/2018), TEQIP-III
3. Data Analysis using Microsoft Excel-2010/2013(Advance level); Jorhat Engineering College, 3 days (14th September to 16th September 2018), TEQIP-III
4. 21 days Student Induction Program for 1st year students 2018,2019, 2020,2021,2022

Training Program- Attended

1. Digital Speech Processing, CET, IIT Kharagpur, MHRD/AICTE, **3 Week** (3rd July, Thursday to 17th July, Thursday, 2008)
2. IP Networking, NITTR, Kolkata, NITTR, MHRD, Govt. of India, **1 Week** (15.12.2008-19.12.2008)
3. Image Processing and Pattern Recognition for Early Diagnosis of Disease (6th June to 11th June 2009, IIT, Kharagpur, AICTE, **1 week** (6th June to 11th June 2009
4. Earthquake Resistant Structure and Retrofitting Techniques, Assam Engineering College, GOI-UNDP DRR Program sponsored by the Assam State Disaster Management Authority, Assam,
5. Elderly People Friendly Web Technology, Jorhat Engineering College, Department of Science & Technology, Govt of India **1 week** (27th February to 2nd March2012)
6. Workshop for North- Eastern Region on Advances in Document Analysis and Retrieval, Guahati University, AICTE/CVPRU, Indian Statistical Institute(ISI) Kolkata, **1 week** (7-11th March,2013)

7. Optoelectronics and Optical Communication, IIT Guwahati, AICTE/CET, **1 week** (16th to 20th September, 2013)
8. Compressive Sensing and Technical Writing, 2 days (6th and 7th April 2013)
9. MATLAB Workshop, 2 days (22nd and 23rd June 2013)
10. Workshop on Image and Speech Processing, 2 days (13th to 14th December, 2013)
11. Workshop for North- Eastern Region on Advances in Document Analysis and Retrieval, **1 week** (7-11th March,2013)
12. Technical Skill development : MATLAB with Hands on training, **2 weeks** (01/09/2014 to 12/09/2014)
13. Course Management System : MOODLE with Hands on Training, **1 week** (03/11/2014 to 07/11/2014)
14. Signal & Systems, **2 week**(2nd January to 12 January, 2014)
15. Advance Auto CAD/ TOOL ROOM& TRAINING CENTRE, GUWAHATI, **4 weeks** (08/02/1016 to 29/02/2016)
16. Mat-Lab Training, 3 Days(27.01.2006-29.01.2006)
17. Algorithms and Architectures for High Efficiency Video Coding, **1 week** (5th to 9th September, 2016)
18. TEQIP-III Teachers Training Workshop on Induction Program for NER Institutes, Indian Institute of Technology, Guwahati, TEQIP-III, 3 days (13-15 October, 2017)
19. Foundations of Robotics, Automation and Finite Element Analysis , Jorhat Engineering College, TEQIP-III, **1 week**(25th to 28th April, 2018)
20. Faculty Induction Program- Outcome Base Education, Jorhat Engineering College, NITTR, Kolkata, AICTE-TEQIP-III, **2 weeks**(07/05/2018 to 17/05/2018)
21. Outcome Base Education (OBE), Jorhat Engineering College, TEQIP-III, 2 days(9th to 10th March, 2018)
22. TEQIP-III Teachers Training Workshop on Induction Program for NER Institutes, Indian Institute of Technology, Guwahati, 3 days (13-15 October, 2017) TEQIP-III
23. Mridushmita Borborah, Pranabjyoti Haloi, Pranjal Jyoti Hazarika, Low-cost E-nose: To identify and study the ripeness of fruits, International Journal of Advance Research, Ideas and Innovations in Technology, ISSN: 2454-132X Impact factor: 4.295 (Volume 4, Issue 3), 2018;
24. Foundations of Robotics, Automation and Finite Element Analysis, Jorhat Engineering College 1 week(25th to 28th April, 2018) TEQIP-III
25. Faculty Induction Program- Outcome Base Education; Jorhat Engineering College, NITTR, Kolkata, 2 weeks(07/05/2018 to 17/05/2018), AICTE-TEQIP-III
26. Outcome Base Education(OBE); Jorhat Engineering College, 2 days(9th to 10th March, 2018), TEQIP-III
27. Signal Processing, Image Processing, Computer Vision and Application; Jorhat Engineering College, 2 Days,(26/03/18 to 27/03/18), TEQIP-III
28. Multimedia Signal Processing and Selected Topics on Control System; Jorhat Engineering College, 2 weeks(23/07/2018 to 03/08/2018), TEQIP-III
29. Faculty Development Programme, IIT Madras , (1 weeks) 9th July to 13th July,2018, Teaching Learning Center IIT Madras
30. Networking and Data Mining; Jorhat Engineering College, 3 days (26th November to 28th November, 2018, TEQIP-III

31. Data Analysis using Microsoft Excel-2010/2013(Advance level); Jorhat Engineering College, 3 days(14th September to 16th September 2018), TEQIP-III
32. Digital Image Processing, 12 weeks (July to Oct 2018), TEQIP-III
33. Quality and Quality Engineering Assam Engineering College 1 week (3-7 December, 2019) TEQIP-III
34. Gender Sensitization and Women Empowerment Jorhat Engineering College One day(16th October) TEQIP-III
35. Registration process and Technical aspects of National Academic Depository Jorhat Engineering College One day(22nd August, 2019) TEQIP-III
36. "Recent Trends and Challenges in Image Processing and Computer Vision" from 29/11/2021 to 03/12/2021 at University School of Information and Communication Technology, Guru Gobind Singh IP University. AICTE Training And Learning (ATAL) Academy
37. 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 14 June, 2021 to 18 June, 2021.
38. TEQIP-III Sponsored One week Online Faculty Development Program on Soft Computing Techniques (SCT-2020) from 25-30 July' 2020, Electrical Engineering Department, National Institute of Technology Srinagar, J&K (An Institute of National Importance under Ministry of HRD, Govt. of India)
39. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on " Speech, Audio and Image Processing using Deep Learning Techniques: Research issues, Innovation and Applications" from 18/10/2021 to 22/10/2021 at University College of Engineering, Ramanathapuram.
40. One-week Online FDP on PYTHON PROGRAMMING held from 20th July' 2020 to 24th July' 2020. Organized by Jorhat Institute of Science and Technology Jorhat, Assam. Under TEQIP-3, sponsored by MHRD, Govt. Of India
41. Soft Computing Techniques (SCT-2020) 25-07-2020 to 30-07-2020, National Institute of Technology Srinagar, J&K Ministry of Human Resource Development, Government of India,
42. One week Online FDP on PYTHON PROGRAMMING held from 20th July' 2020 to 24th July' 2020 Organized by Jorhat Institute of Science and Technology Jorhat, Assam. Under TEQIP-3, sponsored by MHRD, Govt. Of India
43. Recent Advances in RF and Photonics conducted by Department of Electronics and Electrical Engineering under the Technical Education Quality Improvement Programme (TEQIP) sponsored by the Ministry of Human Resource Development, Government of India, held on 22-26 February, 2021
44. Machine Learning & Deep Learning Approach Towards Computer Vision, Department of Computer Application(MCA), Dr. B.C. Roy Engineering College Durgapur from 28th March to 02nd April, 2022 IEEE Kolkata Section
45. Photonics and Photovoltaics: Devices, Circuits, and Metrology conducted by Department of Electronics and Electrical Engineering under the Quality Improvement Programme (QIP) sponsored by AICTE / Ministry of Human Resource Development, Government of India, during December 11-24, 2020
46. "Inculcating Universal Human Values in Technical Education, Universal Human Value 14-06-2021 to 18-06-2021 Nelson Mandela Mars, Vasant Kunj, New Delhi

Administrative Responsibilities

1. Hostel Superintendent. 2017-till date
2. Teacher in-charge Student Union, 2012-till date
3. Convenor, Universal Human Value Cell, JEC. February 2020-till date.
4. Returning Officer, JECSU Election, JEC 2017 till date.