Curriculum Vitae

1. Name (Block Letters) : Dr. ADITYA BIHAR KANDALI

2. Father's/Mother's/ Husband's Name : Late Gopal Chandra Sarmah Kandali (Father)

Mrs. Rani Mai Kandali (Mother)

3. Current Designation : Professor

4. Department : Electrical Engineering

5. Institute : Jorhat Engineering College

6. Address for correspondence (with pin code): Department of Electrical Engineering

Jorhat Engineering College Jorhat -785007 (Assam)

7. Permanent address(with pin code) : Seuj Nagar, Tarajan Kakaty Gaon,

Jorhat-785001, Assam

Telephone No : 9854104118

E -mail : abkandali@gmail.com

8. Educational qualification (HSLC onwards)

Qualification	Board/University	Year of	Specialization
		obtaining	
		degree	
A.I.S.S.E. Class X	C.B.S.E. New Delhi	1980	English, Science, Social
			Studies, Mathematics,
			Assamese, Crafts
A.I.S.S.C.E. Class XII	C.B.S.E. New Delhi	1982	English, Physics, Chemistry,
			Mathematics, Biology,
			SUPW
B.E.	Gauhati University	1987	Electrical Engineering
M.Tech	I.I.T. Kharagpur	1993	Electronics and Electrical
			Communication Engineering
			(Automation and Computer
			Vision Engineering)

9. Research Degree(s):

Degree	Name of the	Date of award	Title
	University		
Ph.D	I.I.T. Kharagpur	15 th September,	Classification of Discrete
		2012	Emotions in Speech using
		2012	Prosodic and Spectral Features:
			Intra- and Cross-lingual Studies in
			Five Native Languages of Assam

10. Details of Teaching/Research/Academic experience:

Designation	Employer	Period of Serv	vice	Scale of Pay
		From	To	
Lecturer	Department of	05-05-1989	05-05-1997	Rs.2200-75-
	Higher Education (Technical), Govt.			2800-100-4000/-
	of Assam			p.m. as per 4 th
				Pay Commission
				1986 (AICTE
				scale)
Lecturer	Department of	05-05-1996	05-05-1997	Rs.8000-275-
	Higher Education (Technical), Govt.			13500/- as per
	of Assam			5 th Pay
				Commission
				1996 (Jan)
				onwards
Senior Lecturer	do	06-05-1997	26-09-2001	Rs.10000- 325- 15200/- p.m.
Assistant Professor	Ministry of	27-09-2001	15-09-2003	Rs.12000- 375-
(Lien)	Defence, Govt. of India			18300/- p.m.
Senior Lecturer	Department of Higher Education (Technical), Govt. of Assam	16-09-2003	19-08-2005	Rs.10000- 325- 15200/- p.m.
Assistant Professor	do	20-08-2005	31-12-2005	Rs.12000- 375- 18300/- p.m.
Assistant Professor	do	01-01-2006	19-08-2008	Rs.15600-39100 with AGP Rs.8000/- p.m. as per 6 th Pay Commission 2006 (Jan)

				onwards
Associate Professor	do	20-08-2008	15-09-2012	Rs.37400-
				67000/- with
				AGP Rs.9000/-
				p.m. as per 6 th
				Pay Commission
				2006 (Jan)
				onwards
Professor	do	16-09-2012	31-12-2015	Rs.37400-
				67000/- with
				AGP 10000/-
				p.m. as per 6 th
				Pay Commission
				(Jan) onwards
Professor	do	01-01-2016	Till Date	Entry Pay of Rs.
				53000/- p.m. as
				per 7 th Pay
				Commission
				2016 (Jan)
				onwards

11. Details of publication

Journals

Book/e-book/book Chapter:

- 1. Goswami, J.G. and Kandali, A.B., "Feature Recognition Using Basic Tools", International Journal of Electronics & Communication Technology (IJECT) Vol. 6, Issue 3, July Sept 2015.
- Goswami, H. and Kandali, A.B., "Spatial Filtering and Morphological Operation as Pre-Processing Steps in Fingerprint Feature Extraction", Communications on Applied Electronics (CAE) - – ISSN: 2394-4714, Foundation of Computer Science FCS, New York, USA, Vol 2, No.5, July 2015 – www.caeaccess.org
- 3. Pegu, B. and Kandali, A.B., "Online Signature Recognition using Neural Network", Int. J. Emerging Trends & Technology in Computer Science (IJETTCS) ISSN 2278-6856, Vol 4, Issue 4, July-Aug 2015 www.ijettcs.org
- 4. Kalyan Bhattacharyya and Aditya Bihar Kandali, "Paper KB Text dependent speaker recognition", International Journal for Scientific Research & Development, Vol. 4, Issue 12, 2017, ISSN (online): 2321-0613 pp 368-371
- 5. Abhishika Baruah and Aditya Bihar Kandali, "Motion Detection Using an Improvised Frame Difference Method", International Journal of New Technologies in Science and Engineering, Vol. 5, Issue. 3, pp 126-132, 2018, ISSN 2349-0780
- 6. Mr. Chirajeev Sarmah and Aditya Bihar Kandali, "Solar Panel Cleaning Robot", International Journal for Research in Engineering Application & Management, IJREAM-V05-I02-50125, May2019, Vol -05, Issue -02

Conferences

1. Pinki Bikomiya Deori and Aditya Bihar Kandali, "Synchronization and Chaos Control of Heavy Symmetric Chaotic Unknown Gyroscope Using MQRBVSC", International Conference on Intelligent Control Power and Instrumentation, 2016, pp12-16, 978-1-5090-2638-8/16/\$31.00©2016 IEEE

- M. S. Kaushik and A. B. Kandali, "Recognition of facial expressions extracting salient features using local binary patterns and histogram of oriented gradients," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), 2017, pp. 1201-1205, IEEE, doi: 10.1109/ICECDS.2017.8389632.
- 3. R. Saikia and A. B. Kandali, "DWT-ELBP based model for face recognition," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), 2017, pp. 1348-1352, IEEE, doi: 10.1109/ICECDS.2017.8389663.
- 4. D. Bora and A. B. Kandali, "Wavelet packet based fusion of IR and gray image," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), 2017, pp. 2281-2284, IEEE, doi: 10.1109/ICECDS.2017.8389859.
- R. R. Kumar, A. Kumari, S. Dutta and A. B. Kandali, "Design and Comparative Analysis of Halbach array and Surface mounted magnetic pole Dual rotor De-Coupled Stator Six-Phase Permanent Magnet Synchronous Generator for Wind power Application," 2020 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 2020, pp. 1-6, doi: 10.1109/PEDES49360.2020.9379803.
- 12. Area of Specialization: Signal Processing (Speech)
- 13. Areas of Research Interest: Signal Processing, Speech Processing, Image Processing, Pattern Recognition and Machine Learning

14. M.Tech Dissertation Supervised

Sl No.	Name of Student	Dissertation	Year	Status
1.	Mr. Joy Gopal Goswami	Feature Recognition Using Basic Tools	2015	Completed
2.	Ms. Himangkona Goswami	Spatial Filtering and Morphological Operation as Pre-Processing Steps in Fingerprint Feature Extraction	2015	Completed
3.	Ms. Babita Pegu	Online Signature Recognition using Neural Network	2015	Completed
4.	Ms. Pinki Bikomiya Deori	Synchronization and Chaos Control of Heavy Symmetric Chaotic Unknown Gyroscope Using MQRBVSC	2016	Completed
5.	Mr. Kalyan Bhattacharyya	Text-Dependent Speaker Recognition	2016	Completed
6.	Mr. Manish Shankar Kaushik	Facial Expression Recognition Using Histogram of Oriented Gradients (HOG) based	2017	Completed

		on Local Binary Pattern (LBP) Extracted from Facial Landmarks		
7.	Mr. Rabul Saikia	Elliptical Local Binary Pattern (ELBP) and DWT based Face Recognition	2017	Completed
8.	Mr. Dhrubajyoti Bora	Fusion of Infra Red and Visible Image Using Wavelet Packet Transform	2017	Completed
9.	Ms. Namita Saikia	Speaker Recognition	2017	Completed
10.	Ms. Abhisikha Baruah	A Pedestrian Detection System in Real Time	2018	Completed
11.	Mr. Chiranjib Sarma	Solar Panel Cleaning Robot	2019	Completed
12.	Ms. Disha Saraswat	A Comparative Study Towards Implementing An Effective Text-To- Speech System	2019	Completed
12.	Ms. Rupsikha Borah	Speaker Recognition in an unsupervised environment using MFCC	2019	Completed
12.	Ms. Chandita Barman	Comparison of Speaker Recognition by Training Emotion Specific Speaker GMM and Mixed Emotion Speaker GMM	2022	Completed
13.	Ms. Rosy Bordoloi	Speech to Text Conversion in Assamese Language	2022	Ongoing

15. PhD Thesis Supervised

Sl	Name of Student	Research Topic	Year of	Status
No.			registration	
1.	Mr. N. K.	Text Dependent	2017	Ongoing
	Kaphungkui	Speaker Recognition		(Submission
				Process Started)
2.	Mr. Gurumayum Vocal Emotion		2017	Ongoing
	Robert Michael	Recognition Using		(Submission
		Native Language of		Process Started)
		Manipuri Using Speech		
		signal Processing		
		Techniques		
3.	Mr. Manish	Detection of Digital	2019	Ongoing
	Shankar Kaushik	Image Forgery Using		

		Forensic Digital Image Processing		
4.	Ms. Kakoli Goswami	Electrical Load Forecasting in Assam, India	2019	Ongoing
5.	Mr. Pranabjyoti Lahon	Smart Grid stability prediction using Machine Learning Techniques	2019	Ongoing

16. Professional membership

Sl No.	Details	Organisation	Year
1.	Life Member	Institute of Engineers India	
2.	Life member	Indian Society of Technical	From 1995
		Education	

17. Details of participation in Faculty Development program/STTPs/Training activities

Sl	Details of	Organisation	No of	Year
No.	FDP/STTPs/Training activities		days	
	attended			
1.	AICTE-QIP STC on Genetic Algorithms for Engineering Optimization	Department of Mechanical Engineering, IIT Guwahati.	05	2015
2.	AICTE-NEQIP STC on Disaster Management	Dept. of Civil Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	05	2015
3.	AICTE-NEQIP STC on Recent Advances in Civil Engineering	Dept. of Civil Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	05	2015
4.	Workshop on Advanced Matlab and its Applications (TEQIP-3, MHRD)	Department of Instrumentation Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	02	2018
5.	MHRD STC on Induction Training	National Institute of Technical Teachers' Training and Research, Kolkata	11	2018
6.	MHRD STC on Faculty Development Programme	Teaching Learning Centre Indian Institute of Technology Madras	05	2018
7.	Multimedia Signal Processing, and Selected Topics on Control System STC (TEQIP-3, MHRD)	Dept. of Electrical Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	12	2018
8.	Data Analysis using Microsoft Excel-2010/2013 (Advance Level) STC (TEQIP-3, MHRD)	Department of Electrical Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	04	2018
9.	Faculty Development Programme on Recent Advances in Photonics	Dept. of Instrumentation Engineering, Jorhat Engineering College, Jorhat-785007, Assam.	06	2018
10.	Professional Development Training for Heads of Departments	IIM, Udaipur	05	2019

11.	First Research Scholars' Meet	Assam Science and Technology University, Guwahati	01	2019
12.	National Seminar on "Recent Challenges in Smart Grid"	Dept. of Electrical Engineering, Kaziranga University, Jorhat	01	2019
13.	Workshop on Gender Sensitization and Women Empowerment (TEQIP- 3, MHRD)	Women Cell, Jorhat Engineering College, Jorhat-785007, Assam.	01	2019

18. List of short term courses organised/Conferences arranged/Course modules developed

Sl No.	Details of STTP/conferences organised	Venue	Date

19. Chair in Conference/ Invited Lecture/ Key note speaker:

 Expert Talk delivered in National Seminar on Recent Challenges in Smart Grid (NSRCSG-2019) on "Application of Digital Signal Processing in Development of Smart Grid"

20. Details of R&D Projects: NIL

Sl	Details	Organisation	Year	Status	Amount
No.					
				PI / Co	
				PI	

21. Details of Major Consultancy Projects involved: NIL

Sl No.	Details	Organisation	Year	Amount
1,0,				

22. Other information:

S1	Details	Organisation	Year
No.			
1.	Participated as member of State Advisory	Assam Electricity	
	Committee (SAC) of Assam Electricity	Regulatory	
	Regulatory Commission in the following	Commission	
	meetings:		
	(a) 27 th Meeting of SAC on 19-12-2020		2020
	(b) 28 th Meeting of SAC on 23-09-2021		2021
	(c) 29 th Meeting of SAC on 23-02-2022		2022
2.	Participated as member in the following	ASTU	
	Board of Studies Meeting of ASTU:-		
	(a) 1 st BOS Meeting of Electrical		

Engineering of ASTU on 05-06-2017	2017
(b) 2 nd BOS Meeting of Electrical	
Engineering of ASTU on 20-03-2018	2018
(c) BOS Meeting of ASTU for New	
Course Structure on 08-05-2018	2018
(d) 3 rd BOS Meeting of 1 st Year BTech	
course of ASTU on 23-04-2018	2018
(e) 4 th BOS Meeting of Electrical	
Engineering of ASTU on 23-04-2018	2018
(f) 1 st BOS Meeting of Instrumentation	
Engineering of ASTU on 06-04-2018	2018