

Profile Page



Name : Dr Asutosh Kar

Designation : Associate Professor

Department : Electronics and Comm. Engg.

Qualification : Faculty Fellow IIT Madras Pravartak | Marie-Curie Post Doc. |
Ph.D. Signal Processing (Post Doc- Aalborg Univ. Denmark |
Ph.D-BIT Mesra [CGPA-9.25])
M.Tech Signal Processing and Control (NIT Hamirpur [CGPA-8.93])
B.Tech ECE (BPUT Odisha [CGPA-8.42])

Address : Department of ECE
DR B R Ambedkar NIT Jalandhar, GT Road,
Barnala-Amritsar Bypass
Jalandhar, Punjab - 144027

Email : kara@nitj.ac.in

Phone : +91-8658204054

Research Interests :

Digital Signal Processing
Applied Machine Learning
Signal Processing applications for 5G/Communication
Acoustics and Audio Signal Analysis and Processing
Adaptive Filters & Statistical Signal Processing
Hearing Aid Systems
Speech, and Image Processing
Music Signal Processing

Other Profile Links :

Google Scholar Link :

Asutosh Kar [Click Here](#)

Personal Web Link :

ResearchGate [Click Here](#)

Journal Publications :

Year	Journal	Publication
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Jan 2023	SCI Indexed Journals-36 Q1-23 Q2-13 [All above 2 Impact factor]	ORCID: https://orcid.org/0000-0003-0011-0069 SCOPUS ID-37049070900
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Conference Publications :

Year	Conference	Publication
Jan 2023	45 International Conference Papers	Out of India- 20, In India- 25. https://orcid.org/0000-0003-0011-0069 https://www.researchgate.net/profile/Dr-Asutosh-Kar

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
International	An operation-reduced fast modeling in 5G communication systems	5G Multimedia Communication-Technology, Multi services and Deployment, CRC Press-2020.	Vladimir Mladenovic, Sergey Makov, Yigang Cen, Asutosh Kar	ISBN 978-0-367-17850-5, 2020	2020
International	An optimized structure filtered-x least mean square algorithm for acoustic noise suppression in wireless networks, pp. 191-206	Recent advances in wireless sensor and ad-hoc networks Springer international publishing, Switzerland.	Asutosh Kar, Mahesh Chandra	SBN 978-81-322-2129-6	2016
International	Pseudo-fractional tap-length learning based applied soft computing for structure adaptation of LMS in high noise environment, pp. 115-129	Soft computing techniques in engineering and technology, Springer international publishing, Switzerland.	Asutosh Kar, Mahesh Chandra	ISBN 978-3-319-04693-8	2015

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI-5 Projects CO-PI- 1 Project	Sponsored-5 , Consultancy -1	The list of projects can be found below.	Dept. of Science and Tech. (DST), Samsung Electronics, Pravartak Tech Foundations , Titan R&D, GMI Chennai	2019	2023	NET Amount-1 29.8 Lakh	4-Completed, 2-Contd	

PI	Sponsored	Adaptive methods for channel and RF front-end equalisation in NOMA systems	DST India-Serbia Bilateral (International Division, DST)	01-01-2023	01-01-2026	15 Lakh	Contd.	Dr. Sandeep, NIT Surathkal
PI	Sponsored	Keyword Spotting Under Playback for Soundbars	Samsung Electronics and IIT Madras Pravartak Tech.	June-2021	May-2022	19.85 Lakh	Completed	None
PI	Sponsored	Development of an advanced electronic device for privacy in conversation over mobile phones using active noise control techniques	GMI Pvt. LTD., Chennai and Ventech Solutions USA	Feb-2019	Dec-2021	29.88 Lakh	Completed	None
PI	Sponsored	Defect identification in watches without opening the back cover using acoustic and vibration methods	Titan R&D and IIT Madras Pravartak Tech.	June-2022	March-2023	14 Lakh	Contd.	None
CO-PI	Sponsored	Design and development of Ultra-Low Power CMOS IC for wireless neural monitoring system	DST India-Korea Bilateral (DST International Division)	April-2021	April-2024	42.75 Lakh	Contd.	Dr. Asutosh Kar

Events Organized :

Category	Type	Title	Venue	From	To	Designation
International Conference	International	IEEE ICESIP-2018	IIITDM Kancheepuram, Chennai	04-07-19	06-07-19	Organising Co-Chair

Workshop	National	One Week Short Term Course on Machine Learning Algorithms and Applications	IIITDM Kancheepuram, Chennai	30-11-19	04-12-19	Organising Chair/Coordinator
STC	National	One Week Short Term training Program on Advanced Signal processing Algorithms and Applications	IIITDM Kancheepuram, Chennai	11-05-19	15-05-19	Organising Chair/Coordinator
Workshop	National	One Week Short Term Course on MATLAB and LabVIEW for Engineering Applications	IIITDM Kancheepuram, Chennai	17-12-2018	21-12-2018	Organising Chair/Coordinator
Workshop	National	National workshop on image and signal processing applications using Xilinx system generator	IIIT Bhubaneswar	19-06-14	20-06-14	Organising Committee
Workshop	National	National workshop on signal processing and applications in power, communication and control	IIIT Bhubaneswar	26-06-13	29-06-13	Organising Committee
Conference	International	Springer Sponsored INDIA-2016	Visakhapatnam	08-01-16	09-01-16	Special Session Organizer
Conference	International	IEEE ECTICON-2015	Hua-Hin Thailand	24-06-15	27-06-15	Special Session Organizer

Professional Affiliations :

Designation	Organization
Senior Member IEEE	IEEE
Member EURASIP	EURASIP
Faculty Fellow	IIT Madras Pravartak

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Venkata Srikanth Burra- Presently Post Doc Fellow in Aalborg University, Denmark	A FAMILY OF ADVANCED ADAPTIVE FILTERING ALGORITHMS FOR STEREOGRAPHIC ACOUSTIC ECHO CANCELLATION (Awarded-2022)	Awarded	2022	None
Vanamadi Ravi- Presently Signal Processing Specialist in DRDO Bangalore	ACOUSTIC SIGNAL ENHANCEMENT IN HEARING AIDS AND MOBILE AUDIO DEVICES(Awarded-2022)	AWARDED	2022	None

NAGA GANESH AKURI	WSN and Signal Processing Applications	Ongoing	2021	Dr. Asutosh Kar, Supervisor- Dr. Sandeep Kumar (NITK)
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PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Number of Students Guided-15 (Till Jan 2023)	Scholars presently Ph.Ds in reputed Universities and working in top MNCs as experts [M. Monisha-PMRF Ph.D. at IIT Madras, Sanjana Shankar-GIPSA Lab France as Marie-Curie Ph.D., Himavanth Reddy-Audio Analysis Lab Aalborg Univ., Ashwin Anjan- Qualcomm, Vishal Kumar-ADF etc.]	awarded	2023	None

Patents :

Name	Reg./Ref. No.	Date of Award/Filling	Organization	Status
2 International patens	RS_1722_U1 and RS_1753_U1	2021 and 2022	Republic of Serbia	Awarded

Admin. Responsibilities :

Position Held	Organization	From	To
Professor In-Charge of Training and Placement	IIITDM Kancheepuram, Chennai	01-03-19	02-01-23
Placement Coordinator	IIITDM Kancheepuram	July 2019	Feb 2021
Co-Investigator of Design and Innovation Centre	IIITDM Kancheepuram, Chennai	July 2018	02-Jan-23
Professor In-Charge Institute Website	IIITDM Kancheepuram, Chennai	Sept 2020	June 2021
Coordinator of institute SSG activities and gardening service	IIITDM Kancheepuram, Chennai	July 2018	June 2019
Placement Coordinator	NIT Jalandhar	16-02-2023	Till Date

Award and Honours :

Title	Activity	Given by	Year
Faculty Fellowship from June 2022-May 2023 (12 Months)	Awarded due to research excellence	IIT Madras Pravartak Tech Foundations	2022
Faculty Fellowship from June 2021-May 2022 (12 Months)	Awarded due to Research Excellence	IIT Madras Pravartak Tech Foundations	2021
Best Paper Award	19th IEEE ECTICON-2021 Chaing-Mai Thailand	ECTICON-2021	2021
Marie-Curie Post Doc Fellowship	Research	Marie-Curie Association, Belgium, Europe	2015
Contract of recognition (on behalf of the President of India)- 4 times	Research talk in AIR	All India Radio	2012-14