BIO DATA

Name   : **Dr.A.Lakshmi**

Designation   : Associate Professor

Department   : Electronics and Communication Engineering

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Mobile Number   : 7708680640, 7598341536 (what's app)

Google Scholar link :

https://scholar.google.com/citations?pli=1&authuser=1&user=eKoEaW0AAAAJ

1. Educational Qualification   :

Degree	Branch / Specialization	Institute/University	Year of Passing
SSLC	---	P.A.C.R. Ammani Ammal Girls' Hr.Sec.School, Rajapalayam/ State Borad- Tamilnadu	1993
HSC	Maths , Biology, Physics, Chemistry	SHNV Girls' Hr Sec School, Sivakasi/State Borad- Tamilnadu	1996
DECE	Electronics and Communication Engineering	Government Polytechnic for Women, Madurai / Department of Technical Education, Government of Tamilnadu	1999
B.E.	Electronics and Communication Engineering	Arulmigu Kalasalingam College of Engineering/ Madurai Kamaraj University	2002
M.E	ECE/ Optical Communication	A.C.College of Engineering and Technology, Karaikudi/ Anna University	2007
Ph.D	ECE/ Image processing and Soft Computing Techniques	Kalasalingam Academy of Research and Education/ Kalasalingam University (Deemed)	2018

2. Professional/ Industry Experience   : (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1.	Associate Professor	Ramco Institute of Technology	1-12-2021	Till Date

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2.	Associate Professor	Kalasalingam Academy of Research and Education, Krishnankoil	1-09-2018	29-11-2021
3.	Assistant Professor-III	Kalasalingam Academy of Research and Education, Krishnankoil	1-12-2016	30-08-2018
4.	Assistant Professor-II	Kalasalingam Academy of Research and Education, Krishnankoil	1-09-2012	30-11-2016
5.	Assistant Professor-I	Kalasalingam Academy of Research and Education, Krishnankoil	13-07-2007	31-08-2012
6.	Lecturer	V.P.M. M Engineering College for Women, Krishnankoil	1-06-2002	30-07-2005

3. Research Interest

Image Processing with Soft computing Techniques, Optical Communication

4. Publications

4.1 JOURNAL PUBLICATIONS

SCI Journals

1. **A. Lakshmi**, M.Pallikonda Rajasekaran, S.Jeevitha, S.Selvendran, "An Adaptive Mri Pet Image Fusion Model Based On Deep Residual Learning And Self Adaptive Total Variation" Arabian Journal Of Engineering And Technology, Nov 2020 (online print available) **IF -2.334,** https://doi.org/10.1007/s13369-020-05201-2

2. B. Ben Sujitha, N.Bhuvaneswary, **A.Lakshmi** A.Nesarani, "Prediction Of Drowsiness Of Human Using Physiological Measured With Optimized Learning Methods"Caribbean Journal of Science, Volume 53, ISSUE 2 (MAY - AUG), 2019,ISSN: 0008-6452,pp 909-928.- **IF 0.2**

3. S.Selvndren, A.Sivanantharaja, Isakki Muthu and **A. Lakshmi**, "Certain Investigation On Visible Light Communication With Ofdm Modulated White Led Using Optisystem Simulation" in Wireless Personal Communications, Volume 109, pages1377–1394 (2019) **IF-1.671**

4. **A.Lakshmi**, T.Arivoli, M.Pallikonda Rajasekaran, "Mix model for Optimization of Textural Features applied to Multiple Sclerosis Lesion Tumor Segmentation" International Journal of Biomedical Engineering and Technology (IJBET),vol30, issue4, 2019,pp-360-381,2019. **IF-0.13**

5. **A.Lakshmi**, T.Arivoli, M.Pallikonda Rajasekaran, "A Novel M-ACA-Based Tumor Segmentation and DAPP Feature Extraction with PPCSO-PKC-Based MRI Classification" Arabian Journal of Science and Engineering, Springer, Vol 43,issue 12, pp 7095-7111, 2019 ,**IF 2.334**

Scopus Journals

1. R Ragumadhavan, N Thenmoezhi, **A Lakshmi**,K R Aravind Britto, "Multiple input and multiple output OFDM for visible light communication", Journal of Physics Conference series Dec 2020 **DOI:10.1088/1742-6596/1717/1/012065**

2. Manjunathan A, **A.Lakshmi**, Ananthi S, Ramachandran A, Bhuwaneswari, " Automatic Text and Sound Using Hand Glove for Disambiguated and Mute People", Annals of the Romanian Society for Cell Biology, 2021: Volume 25: Issue 3, 7401–7407, ISSN 1583-6258

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3. **A. Lakshmi**, C.Charan Kumar, A.Sravani, Gayathri, "Automatic Text and Sound Using Hand Glove for Disambiguated and Mute People" Annals of the Romanian Society for Cell Biology, 2021: Volume 25: Issue 5, ISSN 5002–5010.

4. **Dr.A.Lakshmi** , Pedapudi Lakshmi Narayana , Balan Abilash , Kotte Rajesh , "Intelligence Vehicle Using GPS", Annals of the Romanian Society for Cell Biology Volume 25, Issue 5, May 2021, PP 312-318, ISSN 1583-6258

5. **A.Lakshmi**, M.Aishwarya, D.R.Benita Raja Sheba, K.Flavita Angeline Nivetha, "Detection Of Abnormalities In Abdominal aorta Using Deep Learning Neural Network", JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125

6. **A.Lakshmi**, N.Bhuvaneswary, Mrs.S.Jeevitha, Muthuvel Arumugam, "An Effective Optimization and High Authenticate Feature Extraction in digital Watermarking using 2-level DWT Transform", JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125

7. **A.Lakshmi**, Mrs.S.Jeevitha, Mrs.N.Thenmoezhi, Mrs.N.Bhuvaneswary, "Image Fusion Based Multimodal Biometric Recognition", JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125

8. **Dr.A.Lakshmi**, Dr.Kyung Tae Kim, M.Tanmayi, K.Pavani, "Design of Low-power Multiplier using Spurious Power Suppression Technique (SPST)", JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, Page no 1410-1416, ISSN:2394-5125

9. N. Bhuvaneswary , **A. Lakshmi** "Design And Optimization Of Reversible Look Ahead Carry Adder And Carry Save Adder"3C Technolia, ISSN 2254 – 4143 PP 113-127, 2020, http://doi.org/10.17993/3ctecno.2020.specialissue4.113-127

10. P. B. Dhanusha, **A. Lakshmi**, K. Saravanan, "SMART DRIVING SYSTEM WITH AUTOMATIC DRIVERALERT AND BRAKING MECHANISM""3C Tecnología., 2020, PP: 287-299, ISSN 2254 – 4143, http://doi.org/10.17993/3ctecno.2020.specialissue4.287-299

11. **A.Lakshmi**, Dr.T.Arivoli, S. Sathiya, "Comparative Study of SVM and ANFIS for Ischemic stroke in brain MRI" International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No.1 (2015) pp. 658-663

12. **A.Lakshmi**, Dr.T.Arivoli, "COMPUTER AIDED DIAGNOSIS SYSTEM FOR BRAIN TUMOR DETECTION AND SEGMENTATION", Journal of Theoretical and Applied InformationTechnology, Vol. 64. No. 2 ,20 June 2014

13. J.Selvakumar, **A.Lakshmi**, Dr.T.Arivoli, "Brain Tumor Segmentation and its Area Calculation in Brain MR images using K-means Clustering and Fuzzy C-means Algorithm" IEEE- International conference on Advances in Engineering, Science and Mangement 2012 (IEEE- ICAESM-2012),E.G.S. Pillay Engineering College, Nagapattinam 30th& 31th Mar 2012.(Published in IEEE Xplore)

Other Peer Reviewed Journal

1. Dhanusha P.B, **A.Lakshmi**, " A Review on Image Super Resolution Using Deep Learning Neural Networks" Journal of Pharmaceutical sciences and research, vol 13(9), 2021,pp 521-524, ISSN 0975-1459

2. N.Bhuvaneswar , **A.Lakshmi**, "Design And Implementation Of Intelligent Arm Based Verification Methodology For Low Computation Time And High Performance", International Journal of Advanced Science and Technology, Vol 28, Issue 15, 2019, PP 240-252, ISSN 2005-4238

3. **Dr. A. Lakshmi**, Yemireddy Chandu Vardhan Reddy, Gangineni Vinay Kumar, V. V. Bhogachari, "MRI brain image segmentation using soft computing techniques", International Journal of Advance Research, Ideas and Innovations in Technology, Volume 7, Issue 3,June 2021, PP 1059-1062, ISSN 2454-132X

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4. Prashanth, Pavan Kalyan, Balaji and **A.Lakhsmi**, "Real Time Bus arrival system with advanced Features", International Journal of Innovative Research in Management, Engineering and Technology(IJIRMET),vol-4,issue-4,April 2019.pp 3-6.
5. S. Sulthan Alaudeen and **A.Lakshmi**, "Degradable and non-degradable waste Separation using intelligent approach", International Journal of Emerging Technology and Innovative Engineering (IJETIE),vol-5, issue-5, May2019.Pp-301-304, (ISSN: 2394 – 6598).
6. D.Jagapathi Babu, P.Muthuraj, A.Suryaand **A.Lakshmi**, "Automated Detection of Human Emotions and Heart Rate from Facial Expression using PNN", International Journal of Emerging Technology and Innovative Engineering (IJETIE), vol-5, issue-5, May2019. Pp-290-296(ISSN: 2394 – 6598).
7. **Dr.A.Lakshmi**, G.S.Nivetha, "Identification of Rail Fasteners using SVM Classifier", International Journal of Digital Communication and Networks (IJDCN), vol 11, No 6, 2019, ISSN 2349-9850, PP 26-29,
8. A.Antony Ashwin, B.Bavathaarani, R.Deris, **Dr.A.Lakshmi**, "Implementation of Fake Note Detection Using Digital Image Processing Technique with Arduino" International Journal of Digital Communication and Networks (IJDCN), Vol 11, No 6, 2019-PP-07-15, ISSN 2349-9850.
9. M.Raghavi, M.Princy, R.Priyanka, **A.Lakshmi,** "3D Volume Calculation of Brain Tumor Using Hog Feature Extraction and Connected Component Technique Connected Component Technique", *International Journal of Digital Communication and Networks (IJDCN) Volume 1, Issue 3, September 2014*
10. **A.Lakshmi**, R.Radhakrishnan**,** "Priority Based Polling and Scheduling Algorithm for Intra piconets in Bluetooth" Asian Journal of Computer Science and Technology, Vol 1, pp 21-25, Jan – Jun 2012.

4.2 CONFERENCE PUBLICATIONS
International Conference

1. **A.Lakshmi**, Mr.Muthuvel Arumugam, "Detection And Classification Of Abnormalities In Brain MRI Cells using DWA & CNN" INTERNATIONAL CONFERENCE ON RECENT TRENDS IN GREEN CHEMISTRY & MATERIAL SCIENCE (RTGCMS-2020) MSEC- ISBN-978-93-5396-914-1 **(Awarded best paper)**
2. **A.Lakshmi**, Pasupelti Manojkumar, P.Vikas Charan, S. Ravi Teja, S.A. Sohel Basha, "Intelligent Automatic Speed Control And Accident Avoidance System For Vehicle Using Arduino" "International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th to 20th June 2020, School of Electronics and Electrical Technology, Kalasalingam Academy of Research and Education
3. **Dr.A.Lakshmi**, Dhanusha P.B, Jeeson K James, "Automatic Chalk dust Accumulator For Classrooms", International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th To 20th June 2020, School Of Electronics And Electrical Technology, Kalasalingam Academy Of Research And Education.
4. **Dr.A.Lakshmi**, Dhanusha P.B Er.Sreekala Ks, Elizabath Liza Mathew, "Project Soli", International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th to 20th June 2020, School of Electronics and Electrical Technology, Kalasalingam Academy of Research and Education
5. **A.Lakshmi**, Dr. M. Pallikonda Rajasekaran, Dr.T.Arivoli, S.Jeevitha, N.Bhuvaneshwary, R.Vinupriyadharshini, "Performance Analysis of Brain Tissue Segmentation and Classification using Soft Computing Techniques", KGC19, KARE, 18 TO 19 DEC 2019 (Accepted for 3ciences) (Web of Science)

6. **A.Lakshmi**, Dr. M. Pallikonda Rajasekaran, Dr.T.Arivoli, N.Bhuvaneshwary, S.Sathiya, "Hybrid Classifier for Brain Abnormality Detection in Brain MRI", KGC19, KARE, 18 TO 19 DEC 2019 (Accepted for 3ciences) (Web of Science)

7. M. Dhavanth, **A.Lakshmi**, "Ameliorating Bandwidth Using Next Generation Synchronous Digital Hierarchy", KGC19, KARE, 18 TO 19 DEC 2019 (Accepted for 3ciences) (Web of Science)

8. **A.Lakshmi**, K.Arunkumar, S.Gowtham, M.Manoj Kumar, " Automatic Recognition of Sign Boards Using MYRIO", International Conference On Automation and Computing Technologies (ICACT '18), Vellammal Institute of Technology, Thiruvallur District,17th March 2018.

9. **A.Lakshmi**, Priyadharshini, Surya and Thulasi, " Brain Tumor Classification in MRI Using Neural Network With Cuckoo Search Optimization", 2nd International Conference on Modelling Simulation and Control (ICMSC 2017), Karpagam College of Engineering, Coimbatore, 1st and 2nd April 2017.

10. **A.Lakshmi**, V.Priyadharshini, M.Saranya,R.Priyadharshini, "Development of EEG system used for Classification of Brain wave Disorders", International Conference on Emerging Trends in Electronics Communication and Computing Technology (ICONTECH-2016), Dept of ECE, SCSVMV University, Kanchipuram, 5th&th May 2016.

11. **A.Lakshmi**, T.Arivoli, "Performance Analysis of ANFIS based Brain Tumor detection Algorithm", 2nd International Conference on Electrical, Electronics & Computer Engineering (ICEECE-16), Vivekananda College of Engineering for Women , Tiruchengode, Namakkal District, Tamilnadu,22nd and 23rd March 2016.

12. **A.Lakshmi**, S. Sharmila,S.Ramya,S.Selvapriya, "Implementation of GPS and Sensor Assisted System for Secure Navigation of Fisherman", International Conference on Advance Research in Technology and Engineering (ICARTE '15) , Sri Ranganathar Institute of Engineering and Technology, Athipalayam, Coimbatore, on 31.05.2015.

13. **A.Lakshmi**, T.Arivozhi, S.Sathiya, " Detection of tumor in Brain MRI using SVM classifiers", IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15),Dept of ECE, Karpagam College of Engineering, Coimbatore, 19th& 20th March , 2015.

14. Nithish.R,Maheswaran.S, Nithyaraja.B, **A.Lakshmi**, "Image similarity Retrieval Method for Brain MR Images Based on Uncertain Location Graph", at International Conference On Modelling, Simulation And Control (ICMSC'15), Dept of Mechanical, Karpagam College of Engineering, Coimbatore, 15th and 16th October 2015, ISBN: 978-9, PP 1125-1130,

15. **A.Lakshmi**, T.Arivoli, R.Vinupriyadharshini, " Noise and skull removal of Brain Magnetic Resonance Image Curvelet transform and Mathematical Morphology" International Conference on Electronic and Communication Systems (ICECS' 14) , Karpagam college of Engineering Coimbatore, 13th and 14th Feb 2014

16. S.KalimuthuPandian, **A.Lakshmi**, "Securable Image Compression using SPIHT Algorithm" International Conference on Electronics and Communication Information, systems 2012 (ICECI-12), Kalasalingam University, Krishnankoil, 2nd& 3rd Nov 2012.

17. **A.Lakshmi**, J.Selvakumar, Dr.T.Arivoli, " Extraction of Gliomas by Combing K-means and Fuzzy C-means Algorithm" International conference on Emerging Trends in Computer Communication Technologies (EMICS 12),Maria College of Engineering and Technology,Attoor, 16th& 17th Feb 2012.

18. **A.Lakshmi**, R.Radhakrishnan, "Sniff based Scheduling Algorithm for Intra piconet" International conference on Emerging Trends in Computer Communication Technologies (EMICS 12),Maria College of Engineering and Technology, Attoor, 16th& 17th Feb 2012.

NATIONAL CONFERENCE

1. **A.Lakshmi**, V.Velmurugan, S.B.Vignesh, A.Surya, " Announcement of Municipality Water Availability", National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.

2. **A.Lakshmi**, R.Preethi, B.Mariammal, Chandrasekar, Nandhini, Nagalakshmi, " Nature Dye Extraction From Fruits as a Photosensitized in Dye Sensitized Solar Cell Using PIC Microcontroller", National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.

3. **A.Lakshmi**, Y.Himaja, P.Vaishnavi, C.MohanaTeja, "Atrificial Obstacle Detection System For Blind People", National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.

4. N.Pothirasan, M.PallikondaRajasekaran, **A.Lakshmi**, M.Manikandan, K.Deepan Chakaravarthy, A.Leo Prince, "TRASH CAR",3rd National Conference on Recent Trends in Ubiquitous computing and Communication Technology, Bannari Amman Institute of Technology, Sathya Mangalam, 9th and 10th Dec 2016.

5. **A.Lakshmi**, S.Priyadharshini, V.Priyadharshini, Saranya, "Analysis of Brainwave Disorders with Noise Removal Techniques using LABVIEW and MATLAB" National Conference on VLSI Design and Signal Processing NCVSP '16, Kalasalingam University, 18th March 2016.

6. **A.Lakshmi**, M.Raghavi, M.Princy, R.Priyanka, "3D Volume Calculation of Brain Tumor Using Hog Feature Extraction and Connected Component Technique ", Second National Conference on Advancements and Future Trends in VLSI Design (NCVD 2014),Kalaslaingam University, 26th September 2014.

7. **A.Lakshmi**, R.PounRaja, K.Raghavan, "MRI Brain Image Segmentation Using Supervised classifiers (SVM and RVM)", Second National Conference on Advancements and Future Trends in VLSI Design (NCVD 2014),Kalaslaingam University, 26th September 2014.

8. **A.Lakshmi**, S.Nivedha, T.Nizantha, M.Priya, " A Novel approach to MRI Brain Tumor Segmentation using FCM and MFCM", National conference on Emerging Communication Trends(NCECT-2014), P.S.R Engineering College, Sivakasi,21st and 22nd March 2014.

9. **A.Lakshmi**, R.Karthik, S.AshokRuban, K.MuthuSelvam, "Invariant Face Recognition using Markov Random Fields", National Conference on Communication Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.

10. **A.Lakshmi**, S.Vijayagurunathan, A.Praveen, S.Venkadeshwaran, "Security Against Insider Attacks in Wireless Mesh Networks" National Conference on Communication

Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.

11. **A.Lakshmi**, Dr.T.Arivoli, R.Vinupriyadharshini, "Curve let Based Brain Magnetic Resonance Image De noising" National Conference on Communication Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.

12. S.KalimuthuPandian, **A.Lakshmi**, "SPIHT Algorithm based securable Image Compression" National Conference on Copulation of Trends in Information, computer and Communication Engineering, PSN Engineering College, Melathediyoor, Tirunelveli, 9th April 2013.

13. **A.Lakshmi**, J.Selvakumar, Dr.T.Arivoli, "Segmentation of Brain MR Images for Tumor Extraction by Combining K-means Clustering and Fuzzy C-means" National conference on VLSI , Embedded Communication System (NCVEC'12), Kalasalingam University, Krishnankoil, 24th& 25th Jan 2012.

14. **A.Lakshmi**, R.Radha Krishnan, "Sniff based Polling and Scheduling Algorithm for Intrapiconet " National conference on VLSI , Embedded Communication System (NCVEC'12), Kalasalingam University, Krishnankoil, 24th& 25th Jan 2012.

15. **A.Lakshmi**. Saravanan.B, B.Perumal**,** "Two-Hop Information With Routing Protocol to Enhance the QoS of Real time Packet Delivery for WSN", National Conference on Emerging Trends in Electronics & Communication Engineering (E-COM '11), Mohamed Sathak Engineering College, Kilakarai on 5th Apr- 2011

16. **A.Lakshmi,** Saravanan.B, Ramesh. V**,** "Two-Hop Neighborhood Routing Protocol to Enhance the QoS of Real time Packet Delivery for WSN", Second National Conference on Information Processing, Communication Networks and Embedded System -2010 (NICE), Acharya Institute of Tech, Bangalore on 22nd and 23rd Dec- 2010

17. **A.Lakshmi**, A.SivanandhaRaja "Error Monitoring for Optical Network Services", National Conference on Technology Innovations in Electrical Systems (TIES-2007), PET Engineering College, Vallioor on March 21st and 22nd , 2007

18. **A.Lakshmi**, A.SivanandhaRaja "Error Monitoring for Optical Network Services", National Conference on Advanced Communication Techniqes (NCACT-'07), A.C. College of Engineering and Technology, Karaikudi on 29th and 30th , 2007

4.3 Book/Book chapter publications

Mrs.N.Bhuvaneswary, **A.Lakshmi**, "A New perspective of Engineering Teaching Methodology for Innovation", E-Learning, E-Business and E-Management in Contemporary World, LAP LAMBERT Academy Publishing

5. Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
Nil					

6. Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
1.	Mrs.N.Bhuvaneswary	Kalasalingam Academy of Research and Education	A Python Integrated Verification Environment For SOC Verification	Comprehensive Exam completed and pursuing Ph.D

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			Methodologies	
2.	Mrs.Dhanusha P B	Kalasalingam Academy of Research and Education	Super Resolution Of Retinal Fundus Images Using Deep Learning Methods	Comprehensive Exam completed and pursuing Ph.D
3.	Mr. A.Muthuvel	Kalasalingam Academy of Research and Education	Detection And Segmentation Of Abnormalities In Brain MRI	Comprehensive Exam completed and pursuing Ph.D
4.	Mrs.NThenmoezhi.	Kalasalingam Academy of Research and Education	Efficient Image fusion Using Multi Scale Decomposition and Enhanced BAT Optimization for MRI and CT Brain Images	Comprehensive Exam completed and pursuing Ph.D

7. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	**To**
1.	Various Funding Opportunities in DST for Engineering Institutions	Ramco Institute of Technology, Rajapalayam 626117.	6-02-2022	6-02-2022
2.	Enabling the professional development of faculty on IR 4.0 Technology (AI/ML)	Ramco Institute of Technology, Rajapalayam.	24.01.2022	29-01-2022
3.	Webinar on Funding Opportunities	Kalasalingam Academy of Research and Education	21-01-2022	21-01-2022
4.	International Webinar on " Immunizing cyber security	University College of Engineering, Thirukkuvalai	12-01-2022	12-01-2022

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5.	ATAL FDP on ""Industrial Internet of Things (IIoT) using LabVIEW"	KLE Technological University Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi	3-01-2022	7-01-2022
6.	2nd International Conference on New Computer Science and Engineering Trends(NCSET2021)	World Advanced Science	30.12.2021	30.12.2021
7.	Two days online Workshop on "Deep Learning Networks for Image Processing"	IEEE India Council	22-12-2021	23-12-2021
8.	International Workshop on Innovative Techniques in Digital Media Productions with Mobile Apps	Sathyabama Institute of Science and Technology, Chennai	22-12-2021	22-12-2021
9.	ATAL FDP on "Advance Statistical & Machine Learning Models (ASMLM-2021)"	Indian Institute of Information Technology Ranchi	15.12.2021	19.12.2021
10.	"Tech-Talk: Amazon Cloud Web Services (Aws)"	Department of Information Technology, Kalasalingam Academy of Research and Education.	06-09- 2020	06-09- 2020
11.	AI Techniques in Power System	Guru Nank Technical Institution, Hyderabad	19-07-2020	19-07-2020
12.	Collaboration between Robots and Vision	Pantech E learning	15-07- 2020	15-07- 2020
13.	Person Identifier Using Python and Open CV	Andhara Loyola Institute of Engineering and Technology, Vijayawada	14-07- 2020	14-07- 2020
14.	Brain Computer Interface Robot	Mahatma Gandhi Institute of Technology, Hyderabad	12-07-2020	12-07-2020
15.	Explore What is Next in Deep Learning	Nandha Engineering College, Erode	11-07-2020	11-07-2020

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16.	Python Programming	Vignana Bharathi Institute of Technology	11-07- 2020	11-07- 2020
17.	Python Programming and its Applications	Pantech E learning	10-07-2020	10-07-2020
18.	Machine Learning Approaches	Institution of Aeronautical Engineering, Hyderabad	09-07-2020	09-07-2020
19.	Deep Learning Technique- CNN, R-CNN	B.V. Raju Institute of Technology	09-07- 2020	09-07- 2020
20.	The Science and Applications on NLP	GKM college of Engineering and Technology	08-07-2020	08-07-2020
21.	Deep learning in Modern Recommendation System	Bhoj Reddy Engineering College for Women, Hyderabad	07-07- 2020	07-07- 2020
22.	Deep learning Using Tensor flow and Keras	Angel Institute of Technology & Design, Goa	06-07- 2020	06-07- 2020
23.	Yoga For Corona Virus	Kalasalingam Academy of Research and Education	21-06-2020	21-06-2020
24.	Webinar On OBJECT DETECTION USING DEEP LEARNING	Raju Insttitute Of Technology	21-06-2020	21-06-2020
25.	Webinar On MACHINE LEARNING PREDICTIVE ANALYSIS	Maritime Education And Training	20-06-2020	20-06-2020
26.	Webinar On Leadership Talk	Kalasalingam Academy Of Research And Education	20-06-2020	20-06-2020
27.	Machine Learning predictive Analysis	AMET Academy of Maritime Education and Training	20-06- 2020	20-06- 2020
28.	Webinar On WEBINAR ON SMART GRID	Cresent Insttitute Of Science And Technology	17-06- 2020	17-06- 2020
29.	Clock Domain Crossing Techniques & Clock Dating Design VLSI	Mahathma Gandhi Institute Of Technology	14-06- 2020	14-06- 2020
30.	Leadership Talk	MHRD	13-06- 2020	13-06- 2020

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31.	"Recent Trends On Intelligent Things (AI & Iot)	Kalasalingam Academy of Research and Education	11-06- 2020	11-06- 2020
32.	5G Communications	DMI College Of Engineering	10-06-2020	10-06-2020
33.	Python Programming And Industrial Applications	Ethiraj college for women	09-06- 2020	09-06- 2020
34.	Gesture Recognition	Vardhaman college of Engineering	08-06-2020	08-06-2020
35.	Underwater Communication System	Skn Sinhgad Institute Of Technology And Science	08-06- 2020	08-06- 2020
36.	Leadership Talk	Government of India	06-06- 2020	06-06- 2020
37.	Color Image Processing	RVS college of Engineering and Technology	06-06- 2020	06-06- 2020
38.	First Step Towards Solutions	KARE	16-05- 2020	16-05- 2020
39.	"Tech-Talk: Know Your Customer (KYC)"	KAREIT	12-05- 2020	12-05- 2020
40.	"Tech-Talk: Conventional ECM And Cloud Based ECM Infrastructure"	KARE IT	12-05- 2020	12-05- 2020
41.	Introduction To Artificial Intelligence, Machine Learning And Deep Learning	KARE ECE	01-05- 2020	01-05- 2020
42.	Applying Convolutional Neural Network A Deep Learning	Kalasalingam Institute of Technology in association with Pantech E learning	06-02- 2020	06-02- 2020
43.	Attended One Day Workshop On " Moodle Learning Management System"	IIT, Bombay	15-03-2019	15-03-2019
44.	Attended One Day Workshop On "Geo-Spatial Technologies And Sendai Framework For Disaster Risk Reduction"	Indian Space Research Organisation Department of Space, Govt. of India Dehradun	10-07-2018	10-07-2018
45.	Attended 1 Month Refresher Course On "Pedagogy For Online And Blended Teaching Learning Process"	IIT, Bombay	02-05-2018	24-05-2018

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46.	One Month Training Program Infoundation Program In ICT For Education- (FDP101x) And Pedagogy For Online And Blended Teaching Learning Process- (FDP201x)	CSE-KARE/IIT Bombay	08-03- 2018 to 12-04- 2018	03-05-2018 to 30-05- 2018
47.	Two Days Workshop On Antenna Design Using CST Studio	ECE/KARE	31-03- 2018	02-04-2018
48.	20 Days Training Program On IIRS Outreach Programme On Hyper spectral Remote Sensing And Its Applications	Indian Space Research Organisation Department of Space, Govt. of India Dehradun	19-02-2018	13-03-2018
49.	Attended One Day Workshop For Ethics For Research Supervisor	CLT/KARE	22-02-2018	22-02-2018
50.	Seven Days Faculty Development Programme In DIGITAL FILTER DESIGN USING MATLAB AND DIGITAL SIGNAL PROCESSOR As Organizing Secretary	Dept of ECE,CLT, KLU	16-08- 2017 to 19-08- 2017	05-10- 2017 to 07-10- 2017
51.	One Day International Seminar In NANO TECHNOLOGY AND BIOSENSORS	KARE	07-07-2017	07-07-2017
52.	One Day Training Program In Art Of Counseling And Mentoring	CLT/KLU	20-06-2017	20-06-2017
53.	Five Days Faculty Development Programme in Control System And Its Application Using MATLAB As Organizing Secretary	Dept of ECE,KLU	05-12-2016	09-12-2016
54.	Three Days Faculty Development Programme On "GOAL" (Go Ahead And Lead)	Heartfulness Institute, Shri Ram Chandra Mission, Madurai	01-12- 2016	01-12- 2016
55.	Two Days Workshop In Simulation Software For Microwave And Optical Engineering	ECE,KLU	06-10-2016	07-10-2016

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56.	National Seminar On " Research And Employment Opportunities In VLSI Testing & Verification (NSREVTV '16)	Dept of ECE, KLU	02-04-2016	02-04-2016
57.	One Day Seminar On "NABL Accredited Testing And Calibration"	CLT and Dept of Biomedical Engineering, KLU	19-02-2016.	19-02-2016.
58.	Five Days Faculty Development Programme In 3 Dimensional Stereoscopic Image Processing As Organizing Secretary	Dept of ECE,KLU	25-01-2016	30-01-2016
59.	Two Days Workshop On Hands On Experience In OPTSIM-15	IETE,KLU	18-01-2016	19-01-2016
60.	One Day Workshop On Manuscript Preparation And Publication	CLT,KLU	22-12-2015	22-12-2015
61.	Five Days Faculty Development Progrmme On "Computational Intelligent Techniques And Their Applications"	Kalasalingam University	08-09-2015	12-09-2015
62.	Three Days Workshop On "Implementation Of Soft Computing Techniques And Their Applications"	IEEE MADRAS SECTION , National Engineering College, Kovilpatti	05-08-2015	07-08-2015
63.	One Day National Seminar On "VLSI Signal Processing"	Dept of ECE, KLU	13-02-2015	13-02-2015
64.	Three Days Faculty Development Program On " Soft Computing And Their Applications"	ECE and EIE Kalasalingam University	21-01-2015	23-01-2015
65.	Two Days Seminar On " Recent Trends In Pattern Recognition And Machine Learning Techniques"	Mepco Schelink Engineering College, Sivakasi	19-09- 2014	20-09-2014
66.	National Workshop On Soft Computing In Image Processing	Kalasalingam University	28-03-2014	29-03-2014
67.	National Workshop On Digital Communication Techniques Using COMMLAB- T	P.S.R. Rengasamy College of Engineering for Women, Sivakasi	31-01-2014	31-01-2014

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68.	Faculty Development Program On Wireless Sensor Network	Kalasalingam University,	09-07-2013	13-07-2013
69.	Workshop On Life Skill Management	Kalasalingam University	01-02-2013	01-02-2013
70.	Seminar On research And Consultancy Services	Kalasalingam University	30-12-2011	30-12-2011
71.	Workshop On Reconfigurable Technology And Its Applications	Thiagrarajar College of Engineering	21-10-2011	21-10-2011
72.	Workshop On LABVIEW Programming	Kalasalingam University	17-09-2011	17-09-2011
73.	Faculty Development Program On Optical Communication – EC1402	College of Engineering Guindy Campus, Anna University	15-06-2009	21-06-2009
74.	Workshop On IBM Software- Free Open Software	Arulmigu Kalasalingam College of Engineering	16-08-2007	17-08-2007

8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Webinar Innovation to Reality	Dept of ECE, KARE	24-06-2020	24-06-2020
2.	One week FDP in " Artificial Intelligence and Deep Learning"	Dept of ECE, KARE	31-12-2020 .	07-01-2021
3.	One day Faculty Training Program on Next Generation Networks	Dept of ECE, CLT	19-10-2020	19-10- 2020
4.	One week FDP in " Let's play Machine learning with Tensor flow 2.X including Keras"	Dept of ECE, KARE	25-06-2020	01-07-2020
5.	Organizing Committee member in International Conference on Automation, Signal Processing and Energy System (ICAES-2020)	Virtual Conference, SEET, KARE	19-06-2020	20-06-2020
6.	Organizing Committee member in The Virtual International Conference on Innovations in Interdisciplinary Research (VICIIDR -2020)	Virtual Conference, KARE	23-06-2020	24-06-2020

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7.	Hands on Workshop Effective and Attractive Documentation using Latex	Dept of ECE, KARE	20-05-2020	20-05-2020
8.	One week FDP in "Recent trends in Wireless and IOT"	Dept of ECE, Elysium Academy	19-05-2020	20-05-2020
9.	Workshop Road Map from Project to Patent	Dept of ECE, KARE	09-03-2020	09-03-2020
10.	Organized two days FDP in "Let's Play Machine learning with Tensor flow"	Dept of ECE,CLT, KLU	29-04-2019	30-04-2019
11.	Organized Faculty Development Programme on "Machine Intelligence and IoT".	Dept of ECE,CLT, KLU	02-07-2018	07-07-2018
12.	One day training program for OUT COME BASED EDUCATION as organizing secretary	CLT/KARE	06-04-2018	06-04-2018
13.	Two days National level conference VLSI, Optical communication, Image Processing, Communication System and Embedded system (VOICE'18) as paper scrutinizing committee in charge	Dept of ECE/KLU	12-03- 2018	13-03- 2018
14.	One day training program MENTOR MENTEE as organizing secretary	CLT/KARE	21-06-2017	21-06-2017
15.	Five days FACULTY INDUCTION PROGRAMME as organizing secretary	CLT/KARE	12-06-2017	17-06-2017
16.	Organized Seven days Faculty Development Programme in DIGITAL FILTER DESIGN USING MATLAB AND DIGITAL SIGNAL PROCESSOR as Organizing Secretary	Dept of ECE,CLT, KLU	16th - 19th - 08-2017	05th -07th-10-2017
17.	Organized Five days Faculty Development Programme in Control System and its application using MATLAB as Organizing Secretary	Dept of ECE,KLU	05-12-2016	09-12-2016
18.	Organized seven days Faculty Development Programme in Digital Image Processing as Organizing Secretary	Dept of ECE,KLU & KIT	06-06-2016	13-06-2016

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19.	Organized one day National Conference on VLSI design and Signal Processing (NCVSP '16) as Stage and Session management	IETE	18-03-2016	18-03-2016
20.	Organized one day workshop in Women Entrepreneurship Development Program	CLT,KLU	11-02-2016	11-02-2016
21.	Organized Five days Faculty Development Programme in 3 Dimensional Stereoscopic Image Processing as Organizing Secretary	Dept of ECE,KLU	25-01-2016	30-01-2016
22.	Organized Five days Faculty Development Programme on "Computational Intelligent Techniques and their Applications"	Dept of ECE & EEE, KLU	08-09-2015	12-09-2015
23.	Organized Three days Faculty Development Program on " Soft Computing and their Applications"	Dept of ECE & ICE	21-01-2015	23-01-2015
24.	Organizing one day National Conference on Communication Systems and Signal Processing (NCCSSP) as Organizing Secretary	IETE,Vi-Micro system, KLU- Alumi	19-10-2013	19-10-2013
25.	Organized Five days Faculty Development Programme in Wireless Sensor Network as Organizing Secretary	Dept of ECE, KLU	09-07-2013	13-07-2013
26.	Organized one day National Workshop on Life Skill Management as Coordinator	CLT,KLU	03-02-2013	03-02-2013
27.	Organized Two Days International Conference on Electronics, Communication and Information Systems-ICECI 2012 as Stage Management In charge.	DRDO,BARC, BRNS	02-11-2012	03-11-2012
28.	Organized two day National Workshop on Advanced FPGA design as Organizing Secretary	Enixs Technology	28-02-2012	29-02-2012

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29.	Organized a National Level Technical Conference on Advancement and Future Trends in VLSI Design 'NCVD-2011' as Registration Committee In charge.	--	30-03-2011	31-03-2011
30.	Organized a National Level Technical Conference, VLSI, Embedded and Communication Systems NCVEC -2012 as Registration Committee In charge.	CSIR, DRDO, ISRO, BRNS, ISTE, IETE	24-01-2011	25-01-2011
31.	Organized a National Level Technical Conference on Recent Trends in communication systemsNCRCS-2010 as Scrutinizing Committee In charge.	--	11-03-2010	11-03-2010

9. Online Courses

Sl.No	Course title	University	Date
1.	How to peer review a review article	Research Academy-Elsevier	01-02-2022
2.	Structuring your article correctly	Research Academy-Elsevier	31-01-2022
3.	Funding Hacks for Researchers	Research Academy-Elsevier	20-01-2022
4.	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine Coursera	19-01-2022 (4 week)
5.	Discover how metrics can boost funding and networking opportunities	Research Academy-Elsevier	12-01-2022
6.	Successful research grant applications – getting it right	Research Academy-Elsevier	11-01-2022
7.	Machine Learning Onramp	Mathworks Training Services	13-12-2021
8.	MATLAB Onramp	Mathworks Training Services	08-12-2021
9.	Discrete Time Signal Processing	NPTEL	July to September 2016 (20 hours)
10.	Business English Certificate Preliminary	Cambridge English Language Assessment	July 2015

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10. Patents filed/ awarded: 1

Design and Fabrication of Child Rescue Machine from Tube Wells with Weight Constraint Using Sensors and Wireless Camera. Date of Filing: 18/07/2020. Application No. 202041030735 A

11. Membership in Professional societies:

- An active Life Member of Indian Society for Technical Education (MISTE).
- An active Member of International Association of Engineers (MIAENG).

12. Awards, Recognition& Achievements:

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties)
Awards:

- Received "**APJ Abdul Kalam award of Teaching Excellence**" from Marina Labs, Kavya Garden, and Chennai on 21.10.2017.
- Received "**Best Teacher**" award for the academic year 2016-2017 awarded by IQAC of Kalasalingam University
- Received "**Best Teacher**" award for the academic year 2015-2016 awarded by IQAC of Kalasalingam University
- Received "Best **Faculty Advisor**" award for the academic year 2015-2016 awarded by IQAC of Kalasalingam University
- Received "**Competence award for Faculty Advisorship**" award for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received "**BEST TEACHER(JUNIOR")**" award for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received "**ACTIVE PARTICIPATION IN NBA**" for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received "**RESEARCH EXCELENCE** "award for the academic year 2013-2014 awarded by Dept ECE Kalasalingam University.

Recognition:

- **Recognized Reviewer** for the **Computer in Biology and Medicine**, Elsevier
- **Recognized Reviewer** for the **Biomedical Signal Processing and Control,** Elsevier
- **Reviewer** for the **Informatics in Medicine Unlocked,** Elsevier
- **Reviewer** for the **Computational Intelligence and Neuroscience**, Hindawi
- **Reviewer** for the **Wireless Communications and Mobile Computing**, Hindawi
- **Reviewer** for the **Computational and Mathematical Methods** in Medicine., Hindawi
- **Reviewer** for the **Intelligent Automation & Soft Computing**, Taylor and Francis Ltd.

Achievements:

- Awarded with Certificate Of Appreciation For Adopting Impartus Lecture Capture And Being Part Of The Digital Revolution In Education.

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- Achieved **92.5%** in CLAD exam conducted by National Instruments and awarded with **CLAD Certified Associate Developer**.

Other Responsibilities:

- Internal **Academic Council Member** for KARE from 2014-2017 & 2018-2021
- Internal **Board of Studies Member** in ECE department of KARE for Curriculum Design 2014 -2021
- Department IQAC officer in KARE from 2016 to 2021

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