



Dr.T.Jayasankar

Assistant Professor (Sr.Gr)

Department of ECE

University College of Engineering

BIT Campus, Anna University

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Date of Joining: 26.08.2009; Faculty ID: TF0068; D.O.B: 04.10.1980

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Educational Qualification

- B.E. (2001) in Electronics and Communication Engineering from Kongu Engineering College- Erode.
- M.E.(2003)in Microwave and Optical Engineering from Alagappa Chettiyar College of Engineering & Technology Karaikudi.
- Ph.D (2017) from Anna University, Chennai. (Thesis: Design and FPGA Implementation of Consonants Vowels Units based System of Text to Speech Synthesis for Native Language)

Research Interests

- Speech Processing
- Brain Image Analysis
- VLSI
- Microwave
- Wireless Networks

Professional Experience

- Assistant Professor (Sr.Gr) (2009 – Present: University College of Engineering Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli.
- Assistant Professor (2007-2009): Kings College of Engineering, Pudukkottai.
- Lecturer (2003 – 2007): Anjalai Ammal Mahalingam Engineering College, Tiruvarur.

Project Guidance

- Phd-5 Ongoing
- Under Graduate Level (Bachelor of Engineering) - 30 (Completed)
- Post Graduate Level (Master of Engineering) - 20 (Completed)

Sponsored Projects

Sl.No	Name of the Project	Funding Agency	Amount	Participation	Status
1.	ANN Based Multicast Label For Motor Imagery Recognition in BCI Application	Tamil Nadu State Council for Science and Technology	Rs.7500.00		Completed

2.	Automatic Gender Identification in Speech Recognition by Genetic Algorithm	TEQIP II	Rs 10,000.00	SPS	Completed
3.	Seed Money Grant from TEQIP –II, Anna University-BIT Campus	TEQIP-II	Rs.50,000	--	Completed

Others

1. Recognized supervisor under Anna University (Ref No. 3040012)
2. Doctoral Committee Member- 2 Scholar (Anna University)
3. **Guest Editor** for the Special Issue Titled “ Recent Trends in Computing and Communication Technology” **Bioscience Biotechnology Research Communication Journal (Web of Science Indexed).**
4. Evaluated Thesis in Various Universities (Annamalai University, Bharath University.....)

Journal Reviewer/Editorial Board Member

1. Microprocessors and Microsystems Embedded Hardware Design- **Elseiver (SCIE & Scopus Indexed Anna University)**
2. Materials Today Proceedings- **Elseiver (Scopus Indexed)**
3. Applied Mathematics & Information Sciences (**SCIE & Scopus Indexed Anna University**)
2. Journal of Ambient Intelligence and Humanized Computing-Springer (**SCIE & Scopus Indexed Anna University**)
3. Journal of Applied Science and Engineering, (**ESCI & Scopus Indexed**)
4. International Journal of Advanced Scientific Research & Development (**IJASRD**)
5. Advances in Science, Technology and Engineering Systems Journal (**ASTESJ**).
6. International Journal of Advanced Science and Technology (**IJAST**)

Book Published

1. Dr.R.Satheesh Kumar, **Dr.T.Jayasankar**, Dr.K.Vinoth Kumar, “**Machine Learning with Python**” ISBN: 6200785170 LAP Lambert Academic Publishing (2020-03-10);
2. Special Issue entitled “**Recent Trends in Computing and Communication Technology**” was published in a Journal **Bioscience Biotechnology Research Communication Journal (Web of Science Indexed)**. Published By: Society For Science and Nature, India, Vol 12, No (6), Nov 2019 , *Print ISSN: 0974-6455 Online ISSN: 2321-4007*.
Edited by: Dr.T.Jayasankar, N.Krishnaraj, Dr.K.Vinoth Kumar,

Book Chapters

1. Chapter entitled “**Big Data Based Breast Cancer Prediction Using Kernel Support Vector Machine with the Gray Wolf Optimization Algorithm**” was published in a Book In: Elsevier “**Applications of Big Data in Healthcare**”, Edited by Ashish Khanna, Deepak Gupta and Nilanjan Dey (Ed), ISBN: 9780128202036.
Authors: Dr.T.Jayasankar, Dr.N.B.Prakash, G.R.Hemalakshmi,

Patents

1. Application No.201941046137 A Date of filing of Application : 13/11/2019 (43)
Publication Date: 29/11/2019
Title of the Invention: “**A NOVEL IMAGE COMPRESSION MODEL AND AN OPERATION METHOD THEREOF FOR UNDER WATER ENVIRONMENT**”
2. Application No.201941053821 A Date of filing of Application : 25/12/2019 (43)
Publication Date : 03/01/2020
Title of the Invention: “**IoT BASED PERSONALIZED HEALTHCARE SYSTEM AND METHOD THERE OF**”
3. Application No.202041000991 A Date of filing of Application : 09/01/2020 (43)
Publication Date : 24/01/2020

Title of the Invention: “ **ROBUST VIDEO WATERMARKING SCHEME**”

4. Application No.202041003413 A Date of filing of Application :25/01/2020 Publication Date : 31/01/2020

Title of the Invention: “**AIRBAG IN AUTOMOBILE SAFETY TECHNOLOGY AND IMPROVEMENTS**”

Publications

1. Internationally Journals

- 1) J.Jayanthi, **T.Jayasankar**, N.Krishnaraj, N.B.Prakash, A.Sagai Francis Britto, K.Vinoth Kumar, “An Intelligent Particle Swarm Optimization with Convolutional Neural Network for Diabetic Retinopathy Classification Model,” *Journal of Medical Imaging and Health Informatics (2020)*, ISSN: 2156-7018 (Print): EISSN: 2156-7026 (Online), **IF.0.549. Accepted. (Indexed in SCIE Annexure I)**
- 2) RajaKrishnamoorthy, **T.Jayasankar**, M.Sujatha, N.B.Prakash, C.Bharatiraja, “Design of high efficiency PLL independent LC oscillator for biomedical transceivers,” *Materials Today Proceedings (Elsevier 2020)*, ISSN: 2214-7853, **IF.0.576 (Indexed in Scopus)**
<https://doi.org/10.1016/j.matpr.2020.09.221>
- 3) RajaKrishnamoorthy, **T.Jayasankar**, S.Shanthi, M.Kavitha, C.Bharatiraja, “Design and implementation of power efficient image compressor for WSN systems,” *Materials Today Proceedings (Elsevier 2020)*, ISSN: 2214-7853, **IF.0.576 (Indexed in Scopus)**
<https://doi.org/10.1016/j.matpr.2020.09.221>
- 4) M.Anuradha, **T.Jayasankar**, PrakashN.B³, Mohamed Yacin Sikkandar, G.R.Hemalakshmi, C.Bharatiraja, A. Sagai Francis Britto, “**IoT enabled Cancer Prediction System to Enhance the Authentication and Security using Cloud Computing,**” *Microprocessor and Microsystems (Elsevier 2020)*, vol 78, December, (2020) . ISSN: 0141-9331, **IF.1.161. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1016/j.micpro.2020.103301>
- 5) C Thiruvengadam, M Palanivelan , K. Senthil Kumar , **T. Jayasankar**, “Low power approximate adder based repetitive iteration cord (LP-ARICO) algorithm for high-speed

applications,” *Microprocessor and Microsystems (Elsevier 2020)*, vol 78,October, (2020) . ISSN: 0141-9331, **IF.1.161. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1016/j.micpro.2020.103260>

- 6) K.Vinoth Kumar,**T. Jayasankar**, V. Eswaramoorthy,V. Nivedhitha, ” SDARP: Security based Data Aware Routing Protocol for ad hoc sensor networks,”, *International Journal of Intelligent Networks (2020)*,vol.1,2020,pp. 36–42. (**Science Direct**)
<https://doi.org/10.1016/j.ijin.2020.05.005>
- 7) Priyanka Parvathy, D Kamalraj Subramaniam, G.K.D PrasannaVenkatesan, P. Karthikaikumar , Justin Varghese, **T.Jayasankar**, “Development of Hand Gesture Recognition System Using Machine Learning”, *Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137 (Print), 1868-5145 (Online), **IF.4.594. (Indexed in SCIE Annexure I)**
<https://link.springer.com/article/10.1007/s12652-020-02314-2>
- 8) Mohamed Yacin Sikkandar, **T. Jayasankar**,· K. R. Kavitha, N. B. Prakash, Natteri M. Sudharsan, G. R. Hemalakshmi, “Three Factor Nonnegative Matrix Factorization based HE Stain Unmixing in Histopathological Images," *Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137 (Print) 1868-5145 (Online) **IF.4.594. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1007/s12652-020-02265-8>
- 9) A.Sheryl Oliver, M.Anuratha, M. Jean Justus, Kiranmai Bellam, **T.Jayasankar**, “An Efficient Coding Network Based Feature Extraction with Support Vector Machine Based Classification Model for CT Lung Images,” *J. Med. Imaging Health Inf.*,vol.10,no.11.pp.2628–2633(2020),ISSN :2156-7018 (Print);ISSN 2156-7026 (Online) **IF.0.549 (Indexed in SCIE Annexure I)**
- 10) J. Jayanthi, E. Laxmi Lydia, N. Krishnaraj, **T. Jayasankar** , R. Lenin Babu · R. Adaline Suji,” An effective deep learning features based integrated framework for iris detection and recognition”, *Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137 (Print) 1868-5145 (Online), **IF.4.594. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1007/s12652-020-02172-y>

- 11) Lakshmi R. Nair, Kamalraj Subramaniam. G. K. D. PrasannaVenkatesan, P. S. Baskar ,**T. Jayasankar**, “Essentiality for bridging the gap between low and semantic level features in image retrieval systems: an overview”, *Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137 (Print) 1868-5145 (Online) **IF.4.594. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1007/s12652-020-02139-z>
- 12) Radhika Baskar, Sudhakar Sengan, S.Sumithra, R.Purushothaman, **T. Jayasankar**,” *An Improved Routing Schema with Special Clustering using Hybrid GA-ACO-PSO for Heterogeneous Wireless Sensor Network*”, *International Journal of Advanced Science and Technology*, Vol.29, No.5, (2020), pp.6661–6672, ISSN: 2005-4238. **IF.0.441. (Indexed in Scopus and UGC)**
- 13) M. Anuradha · Vithya Ganesan · Sheryl Oliver · T. Jayasankar · R. Gopi,” *Hybrid Firefly With Differential Evolution Algorithm For Multi Agent System Using Clustering Based Personalization*”, *Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137 (Print) 1868-5145 (Online) **IF.4.594. (Indexed in SCIE Annexure I)**
<https://doi.org/10.1007/s12652-020-02120-w>
- 14) **T. Jayasankar**, S. Shanthi, R.M. Bhavadharini and C. Thiruvengadam, “*A Multicast Effective Intrusion Detection System for MANET*”, *Bioscience Biotechnology Research Communications, Special Issue Recent Trends in Advanced Information and Communication Technology*, Vol. 13, No.2, March (2020),pp.132-136, Print ISSN: 0974-6455, Online ISSN: 2321-4007, **SJIF:4.186. (Web of Science - Emerging Sources Citation Index)**
- 15) G.Mani, V.Nivedhitha, N.S.Pradeep, **T.Jayasankar**⁴ and K.Vinothkumar · “*Reliable Wormhole Detection System (RWDS) Based Secure Routing and Authentication for Environmental Monitoring*”, *Journal of Green Engineering (JGE)*, Vol.10, No.3, pp.734-749, March 2020, ISSN:1904-4720, **IF.0.24. (Indexed in Scopus and UGC).**
- 16) S.Anitha Elavarasi, J. Jayanthi N.Basker **T. Jayasankar**,” *Methods for Improving the Predictive Accuracy of Autism Spectrum Disorder Screening using Machine Learning Algorithms*”, *International Journal of Advanced Science and Technology*, Vol.29, No.3, (2020), pp.9255–9262, ISSN: 2005-4238. **IF.0.441. (Indexed in Scopus and UGC).**

- 17) Donepudi Babitha, **Jayasankar.T**, Sriram V.P, Sudhakar S, Kolla Bhanu Prakash,” *Speech Emotion Recognition using State-of-Art Learning Algorithms*”, *International Journal of Advanced Trends in Computer Science and Engineering*, Vol. 9, No. 2, pp.1340-1345, March-April (2020), ISSN 2278-3091. **(Indexed in Scopus and UGC)**
<https://doi.org/10.30534/ijatcse/2020/67922020>
- 18) N.Ramya, M.Sujatha, **T.Jayasankar**, Prasad Jones Christydass, “*Metamaterial Inspired Circular Antenna with DGS for Tetra Band Application*”, *International Journal of Control and Automation*, Vol. 13, No. 2, (2020), pp. 877 – 882, ISSN: 2005-4297. **(Indexed in Scopus and UGC)**
- 19) Srinivasan Subramanian, K.Vinoth Kumar, **T.Jayasankar**, Malladi Srinivas, “*Automated Kitchen Management and Provisions Monitoring System Using IoT Technology*”, *International Journal of Control and Automation*, Vol.13, No.2, (2020), pp.776–784, ISSN: 2005-4297. **IF.0.28. (Indexed in Scopus and UGC)**
- 20) E. Punarselvam, Mohamed Yacin Sikkandar, ·Mohsen Bakouri, N. B. Prakash and · **T.Jayasankar** and S.Sudhakar, “*Different Loading Condition and Angle Measurement of Human Lumbar Spine MRI Image Using ANSYS*”, *Springer Journal of Ambient Intelligence and Humanized Computing (2020)*, ISSN: 1868-5137(Print),1868-5145 (Online) **IF.1.91.(Indexed in SCIE Annexure D)** <https://doi.org/10.1007/s12652-020-01939-7>.
- 21) D.Anandha Kumar, S.Nyamathulla M. Kirankumar, K.Vinoth Kumar **T. Jayasankar** “*A Hybrid Secure Aware Routing Protocol for Authentication in MANET*”, *International Journal of Advanced Science and Technology*, Vol.29, No.3, (2020), pp.8786–8794, ISSN: 2005-4238. **IF.0.441. (Indexed in Scopus and UGC)**
- 22) **T. Jayasankar**, M.Sujatha and C.Rajinikanth, “*Unconstrained Global Optimization Based Partial Transmit Sequence For OFDM PAPR Reduction*”, *International Journal of Advanced Science and Technology*, Vol.29, No.3, (2020), pp.7346–7354, ISSN: 2005-4238. **IF.0.441. (Indexed in Scopus and UGC)**
- 23) S.Pramela Devi, V.Eswaramoorthy, K.Vinoth Kumar and **T. Jayasankar**, “*Likelihood based Node Fitness Evaluation Method for Data Authentication in MANET*”, *International Journal of Advanced Science and Technology*, Vol. 29, No. 3, (2020), pp. 5835 – 5842, ISSN: 2005-4238. **IF.0.441. (Indexed in Scopus and UGC)**
- 24) Avudaiappan.T, Jenifer, Sisay tumsa, Subashree, **T.Jayasankar**, “*Twitter Sentimental*

- Analysis Using Neural Network*”, *International Journal of Scientific & Technology Research*, Vol.9, No. 02, pp.2573-2577, February 2020, ISSN 2277-8616. **(Indexed in Scopus and UGC)**
- 25) S.Shanthi, **T. Jayasankar**, Prasad Jones Christydass, P. Maheswara Venkatesh , “*Wearable Textile Antenna For GPS Application*”, *International Journal of Scientific & Technology Research*, Vol.8, No.11, pp.3788-3791, Nov 2019, ISSN 2277-8616. **(Indexed in Scopus and UGC)**
- 26) M.Sujatha, N.,B.Prakash, G.R.Hemalakshmi, **T.Jayasankar** “*High Performance Grouping With Load Balancing Scheme for Wireless Sensor Networks*” *International Journal of Advanced Science and Technology*, Vol. 28, No. 12, (2019), pp. 441-449, November, ISSN: 2005-4238, **IF.0.441. (Indexed in Scopus and UGC)**
- 27) Stephe.S, **T.Jayasankar**, “*Motor Imagery Recognition of EEG Signal using Cuckoo-Search Masking Empirical Mode Decomposition*”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Vol.8, Issue-11, September 2019, pp.2717-2720, ISSN: 2278-3075. **(Indexed in Scopus and UGC)**
DOI: 10.35940/ijitee.K2175.0981119
- 28) Stephe.S, **T.Jayasankar**, “*Analysis of Brain Computer Interface in Different Neuro Image Signals*”, *International Journal of Scientific Research and Review*, Volume 8, Issue 6, June (2019), pp.1287-1295, ISSN NO: 2279-543X. **(UGC Journal)**
- 29) R. Kiruba Buri and **T. Jayasankar**, “*Intelligence Intrusion Detection Using PSO with Decision Tree Algorithm for Adhoc Network*” , *Bioscience Biotechnology Research Communications, Special Issue Recent Trends in Computing and Communication Technology*, Vol. 12, No.2, March (2019),pp.27-34, Print ISSN: 0974-6455, Online ISSN: 2321-4007, **SJIF:4.186. (Web of Science - Emerging Sources Citation Index and UGC)**
DOI: 10.21786/bbrc/SI/12.2/5
- 30) C. Ravichandran, C. Kalaiselvan and **T. Jayasankar** , “*Automatic Face and Facial Expression Recognition Video Using Modified LDTP*”, *Bioscience Biotechnology Research Communications, Special Issue Recent Trends in Computing and Communication Technology*, Vol. 12, No.2, March (2019), pp.61-69, Print ISSN: 0974-6455, Online ISSN: 2321-4007, **SJIF:4.186. (Web of Science - Emerging Sources Citation Index and UGC)**

DOI: 10.21786/bbrc/SI/12.2/10

- 31) R. Ponni, **T. Jayasankar** and V. Jonce Anjaline, “Image Segmentation and Volume Estimation of Thyroid Nodules using Ultra Sound Image”, *Bioscience Biotechnology Research Communications, Special Issue Recent Trends in Computing and Communication Technology*, Vol. 12, No.2, March (2019), pp.116-120, Print ISSN: 0974-6455, Online ISSN: 2321-4007, **SJIF:4.186. (Web of Science - Emerging Sources Citation Index and UGC).**

DOI: 10.21786/bbrc/SI/12.2/19

- 32) N. Krishnaraj, M. G.Kavitha, **T. Jayasankar**, K. Vinoth Kumar, “A Glove Based Approach to Recognize Indian Sign Languages”, *International Journal of Recent Technology and Engineering (IJRTE)*, Volume-7, Issue-6, March 2019, pp.1419-1425. **(Indexed in Scopus)**

- 33) K.VinothKumar, **T.Jayasankar**, “An Identification of Crop Disease Using Image Segmentation”, *International Journal of Pharmaceutical Sciences and Research*, Vol.10, Issue 3, March 2019, pp 1054-1064, ISSN: 0975-8232; P-ISSN: 2320-5148, **IF. 0.59. (Web of Science - Emerging Sources Citation Index & Scopus)**

[http://dx.doi.org/10.13040/IJPSR.0975-8232.10\(2\).1000-11](http://dx.doi.org/10.13040/IJPSR.0975-8232.10(2).1000-11)

- 34) P.Shanmugapriya, V.Mohan, **T.Jayasankar**, Y.Venkataramani, “Deep Neural Network based Speaker Verification System using Features from Glottal Activity Regions”, *Appl. Math. Inf. Sci.*, vol.12, no.6, Nov 2018, pp.1147–1155, ISSN: 1935-0090(Print): E-ISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**

DOI: <http://dx.doi.org/10.18576/amis/120609>

- 35) C. Ravichandran, C. Kalaiselvan and **T. Jayasankar**, “A Secret Image Embedding Technique for 2D Barcode in Video”, *International Journal of Advanced Scientific Research & Development*, Vol. 05, Iss. 07, Ver. I, Jul’ 2018, pp. 01 – 08, E-ISSN: 2395-6089.

<https://doi.org/10.26836/ijasrd/2018/v5/i7/50701>.

- 36) S.Gopinath, K.VinothKumar, **T.Jayasankar**, “Secure Location Aware Routing Protocol With Authentication For Data Integrity”, *Springer- Cluster Comput*, 22,13609-13618 (2019) ISSN: 1386-7857(Print),ISSN:1573-7543 - Online),**IF: 3.458. (Indexed in SCIE and Scopus Annexure I)**

<https://doi.org/10.1007/s10586-018-2020-7>

- 37) Sangeetha .J, **Jayasankar.T** , “*Emotion Speech Recognition based on Adaptive Fractional Deep belief Network and Reinforcement Learning*, *Springer- Advances in Intelligent Systems and Computing* - International Conference on Cognitive Informatics & Soft Computing (CISC-2017),pp-167-174,**IF.0.434. (Indexed in Scopus)**
[https://doi.org/ 10.1007/978-981-13-0617-4_16](https://doi.org/10.1007/978-981-13-0617-4_16) .
- 38) J.Sangeetha,**T.Jayasankar**,” *A Novel Whispered Speaker Identification System Based on Extreme Learning Machine*”, *International Journal of Speech Technology, Springer*, (2018) 21 (1), pp.157–165, ISSN: 1381-2416 (Print) 1572 -8110 (Online), **IF: 1.05 . (Web of Science - Emerging Sources Citation Index & Scopus)**
DOI: <https://doi.org/10.1007/s10772-017-9488-z>
- 39) R.ArunPrakash, **T.Jayasankar**, K.VinothKumar, “*Biometric Encoding and Biometric Authentication (BEBA) Protocol for Secure Cloud in M-Commerce Environment*”, *Appl. Math. Inf. Sci.*, Vol.12, No.1, Jan 2018, pp.255–263, ISSN: 1935-0090(Print): ISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**
DOI: <http://dx.doi.org/10.18576/amis/12012>.
- 40) R.ArunPrakash, W. R. Salem Jeyaseelan, **T.Jayasankar**, “*Detection, Prevention and Mitigation of Wormhole Attack in Wireless Ad Hoc Network by Coordinator*”, *Appl. Math. Inf. Sci.*, Vol.12, No.1, Jan 2018, pp.233–237, ISSN: 1935-0090(Print): EISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**
DOI: <http://dx.doi.org/10.18576/amis/120123>
- 41) K.VinothKumar, **T.Jayasankar**, M.Prabhakaran and V. Srinivasan, “*Crop Based Irrigation System with Plot Selection*”, *Fronteiras: Journal of Social, Technological and Environmental Science*, Vol.6, No.2, May-Aug 2017, pp.265–273, ISSN: 2238-8869, **IF:0.271. (Indexed in Scopus)**
DOI: <http://dx.doi.org/10.21664/2238-8869.2017v6i2>.
- 42) P. Maheswaravenkatesh, **T. Jayasankar**, K.VinothKumar, “*Triple Band Micro Strip Antenna for Femtocell Applications*”, *International Journal of Advanced Bio technology and Research (IJBR)*, Vol.8, No.3, Aug 2017, pp.2166–2175,ISSN: 0976-2612(Print): EISSN: 2278–599X (Online). **(Web of Science - Emerging Sources Citation Index)**
- 43) **T.Jayasankar**, K.VinothKumar & J.Arputha Vijayaselvi, “*Automatic Gender Identification*

ation in Speech Recognition by Genetic Algorithm”, *Appl. Math. Inf. Sci.*, Vol.11, No. 3, May 2017, pp.907–913, ISSN: 1935-0090(Print): EISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**

DOI: <http://dx.doi.org/10.18576/amis/110331>

- 44) P.Maheswara Venkatesh, A. Sivanantha Raja, **T. Jayasankar** & K.VinothKumar, “QoS Aware and Green Hybrid Access Network”, *Appl. Math. Inf. Sci.*, Vol.11, No.3, May 2017, pp.819–825, ISSN: 1935-0090(Print): EISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**

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- 45) K.VinothKumar, **T.Jayasankar**, M.Prabhakaran and V.Srinivasan, “Fuzzy Logic based Efficient Multipath Routing for Mobile Adhoc Networks”, *Appl. Math. Inf. Sci.*, Vol. 11, No.2, March 2017, pp.449–455, ISSN: 1935-0090(Print): EISSN: 2325-0399 (Online), **IF.0.527. (Indexed in Scopus)**

DOI: <http://dx.doi.org/10.18576/amis/110213>

- 46) K. Vinoth Kumar, **T. Jayasankar**, M. Prabhakaran and V. Srinivasan, “EOMRP: Energy Optimized Multipath Routing Protocol for Wireless Sensor Networks,” *International Journal of Printing, Packaging & Allied Sciences*, Vol. 4, No. 1, December 2016, pp 336-343. ISSN: 2320-4387.

- 47) S.Prabhu, **T.Jayasankar**, D.Tensing, “New Segmentation and Classification of Multispectral Satellite Image Using Modified Graphcut and Its Applications”, *International Journal of Printing, Packaging & Allied Sciences its Applications*, Vol. 4, No. 3, December 2016, pp.1837-1846. ISSN: 2320-4387.

- 48) P.Maheswara Venkatesh, **T.Jayasankar**, K.Vinoth Kumar, “Inverted S-Shaped Quad Band Patch Antenna for Wireless Applications,” *Journal of Advances in Chemistry*, Vol 12, No 19, Nov 2016, pp 5139-5144, ISSN 2321 - 807X.

- 49) **T.Jayasankar**, J.Arputha Vijayaselvi, “Prediction of Syllable Duration Using Structure Optimized Cuckoo Search Neural Network (SOCNN) for Text-To-Speech,” *J. Comput. Theor. Nanosc.*, Vol.13, No.10, October 2016, pp 7538–7544, ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online), **IF:0.160, (Indexed in Scopus)**

DOI: [10.1166/jctn.2016.5750](http://dx.doi.org/10.1166/jctn.2016.5750)

- 50) P.Maheswaravenkatesh, A. Sivanantha Raja, **T. Jayasankar**, “Enhancing The QoS in

Energy Efficient WDM/OFDM Passive Optical Networks,” *International Journal of Control Theory and Applications*, Vol 9, No.8 (August), 2016, pp. 3505-3514. ISSN 0974-5572, **IF:0.166. (Indexed in Scopus)**

- 51) E.Vishnupriya, **T. Jayasankar** and P. Maheswara Venkatesh: “*SDAOR: Secure Data Transmission of Optimum Routing Protocol in Wireless Sensor Networks For Surveillance Applications*”, *ARPN Journal of Engineering and Applied Sciences* , Vol. 10, No. 16, Sep 2015, pp 6917-6931, ISSN: 1819-6608, **IF:0.483 (Indexed in Scopus)**
- 52) S.Saranya Swaminathan, **T.Jayasankar**, “*Emotion Speech Recognition Using MFCC and Residual Phase in Artificial Neural Network*”, *International Journal of Engineering Research and Science & Technology*, Vol.4, No.3, August 2015, pp 106-113, **ISBN - 2319-5991.**
- 53) **T.Jayasankar** and K. Sathya, “*Identification of Bacterial Throat Infection Using WT and ANN*”, *Middle East Journal of Scientific Research*, vol.23, Issue 8, pp : 1727-1733 , August 2015 (ISSN: 1990-9233),**IF 0.36.**
- 54) **T.Jayasankar**, J.Arputha Vijayaselvi, “*A Novel FPGA Based Low Cost Solution for Tamil-Text to Speech Synthesizer*, ” *Research Journal of Applied Sciences, Engineering and Technology*, vol.10, Issue (12) August 2015: 1379-1383, 2015 ISSN: 2040-7467 , e-ISSN: 2040-7459, **IF 0.35. (Indexed in Scopus)**
DOI: 10.19026/RJASET.10.1837
- 55) P.Santhiya, **T. Jayasankar**, “*MFCC And GMM Based Tamil Language Speaker Identification System*”, *Advances in Engineering & Scientific Research*, Vol. 1,No.1,pp 1-6 , June 2015.
- 56) Vishnupriya E,**T.Jayasankar**, “*Energy Efficient Analysis on Optimum Routing Protocols in Wireless Sensor Networks*, ” *International Journal of Advance Research and Innovation (IJARI)*, pp.217-221, March 2015, ISBN:2347-3258.
- 57) Vishnupriya E, **T.Jayasankar**, “*Performance Analysis of Optimum Routing Protocols in Wireless Sensor Networks*, ” *IJISSET -International Journal of Innovative Science, Engineering & Technology*, Vol. 2 Issue 2, February 2015, pp.520-528, ISSN: 2348 - 7968.
- 58) **T. Jayasankar** ,K.Rajasekaran, J.Jayalakshmi, “*A Deep and Wide Analysis for Speech -Emotion Recognition Using Multilayer Perceptron*”, *IJISSET - International Journal of Innovative Science, Engineering & Technology*, Vol. 1 Issue 9, November 2014, p

- p.193-201, ISSN: 2348-7968. (UGC)
- 59) **T. Jayasankar**, J.Arputha Vijayaselvi, “*FPGA-Based Implementation of Text Analyser and Syllable Preparation for Concatenative Speech Synthesis of Tamil Language*,” *Australian Journal of Basic and Applied Sciences*, 8(10) July 2014, Pages: 102-109, ISSN:1991-8178.
 - 60) **T. Jayasankar**, J.Arputha Vijayaselvi, K.Rajasekaran, J.Jayalakshmi, “*Tamil Words Speech Synthesis in Cochlear Implant Using Acoustic Model*,” *Australian Journal of Basic and Applied Sciences*, 8(10) July 2014, pp: 349-356, ISSN:1991-8178.
 - 61) **T.Jayasankar**, J.Arputha Vijayaselvi, A.Balaji Ganesh, D.Kumar, “*Word and Syllable Based Concatenative Model of Text to Speech Synthesis of Tamil Language*”, *International Journal of Applied Engineering Research*, Volume 9, Number 24 (2014), pp. 23 955-23966, ISSN: 0973-4562, **IF 0.35. (Indexed in Scopus)**
 - 62) **T.Jaysankar**, P.Gopalakrishnan, “*Adaptive Visual Tracking for Human Detection*”, *Unique Journal of Engineering and Advanced Sciences*, 02 (02) 2014, pp. 26-29. ISSN 2348-375x.
 - 63) A.Arokkiaraj, **T.Jaysankar**, “*OFDM Based Spectrum Sensing in Time Varying Channel*”, *International Refereed Journal of Engineering and Science (IRJES)*, Volume 3, Issue 4(April 2014), pp.50-55, ISSN (Online) 2319-183X, (Print) 2319-1821.
 - 64) M. Nuthal Srinivasan,**T. Jayasankar**, “*Recovery of EMG Signals from the Mixture of ECG and EMG Signals*”, *IJRIT International Journal of Research in Information Technology*, Volume 2, Issue 5, May 2014, pp: 227-234, ISSN:2001-5569.
 - 65) Mathuvanesan.C, **Jayasankar.T** “*Performance Analysis of Singularity and Irregular Detection in Human Health Monitoring Using Lipchitz Exponent Function*”, *International Journal of Engineering Research and Technology (IJERT)*, Vol.2, Issue 6, June – 2013,pp.414-418, ISSN: 2278-0181.
 - 66) K.Rajasekaran, J. Jayalakshmi, **T. Jayasankar**, “*Design and Analysis of Stepped Impedance Microstrip Low Pass Filter Using ADS Simulation Tool for Wireless Applications*”, *International Journal of Scientific and Research Publications*, Volume 3, Issue 8, August 2013,pp.1-5, ISSN 2250-3153.
 - 67) **T.Jayasankar**, R.Thangarajan, J.Arputha Vijayaselvi, “*Automatic Continuous Speech Segmentation to Improve Tamil Text-to-Speech Synthesis*”, *International Journal of*

Computer Applications (0975–8887), Volume 25, No.1, July 2011, pp.31-36, ISSN : 012-4560.

- 68) **T.Jayasankar** J. Arputha Vijayaselvi, “*Embedded Unit Selection with Limited Data Base for Tamil Text-to-Speech Synthesis*”, *CiiT International Journal of Programmable Device Circuits and Systems*, Vol 3, No 1, January 2011, pp.37-40, Print: ISSN 0974 – 973X & Online: ISSN 0974 – 9624.
- 69) S.Mary Cynthia, **T.Jayasankar**, “*MMP Based Scanned Compound Document Encoding*”, *International Journal of Computer Information Systems*, Vol. 2, No.5, 2011, pp.32-36, ISSN : 2229- 5208.
- 70) S.JacilyJemila and **T. Jayasankar**, “*An Automated Cancer Recognition System for MRI Images Using Neuro Fuzzy Logic*”, *International Journal of Computer Information Systems*, Vol. 2, No. 5, 2011, pp.18-22, ISSN: 2229- 5208.

(ii) International Conferences

- 1) **T.Jayasankar**, “*Deep Learning Classification for Motor Imagery Movements using Brain Computer Interface*, 5th International Conference Latest Trends in Science, Engineering and Technology (ICLTSET’ 19), organized by Karpagam Institute of Technology, Coimbatore held on March 22- 23 rd 2019.
- 2) **T. Jayasankar** and P. Maheswara venkatesh, “*Estimation of Joint Phase Noise and Channel in OFDM with Low-Complexity Optimization Methods in IOT-Based Networks*, SEEE sponsored International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’18) organized by Karpagam Institute of Technology, Coimbatore to be held on March 23rd & 24th, 2018.ISBN:978-81-910-748-5-7.
- 3) P. Maheswara venkatesh and **T. Jayasankar**, “*Performance Investigation of Typical 1550 Nm Optical Inter-Satellite Communication Systems in Space Ionizing Radiation Environment*”, SEEE sponsored International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'18) organized by Karpagam Institute of Technology, Coimbatore to be held on March 23rd & 24th, 2018.ISBN:978-81-910-748-5-7.

- 4) Stephe.S, **T.Jayasankar**, Vinothkumar.K, *“Overview of Feature Extraction Techniques in Brain Computer Interface”*, 2nd International Conference on Innovations in Engineering, Technology and Science (ICIETS’ 18), 13th to 14st March 2018, organized by K.Ramakrishnan College of Engineering Tiruchirappalli.
- 5) Sangeetha .J, **Jayasankar.T** , *“Emotion Speech Recognition based on Adaptive Fractional Deep belief Network and Reinforcement Learning”*, International Conference on Cognitive Informatics & Soft Computing (CISC-2017) 20th to 21st December 2017, organized by VBIT, Hyderabad.
- 6) **T.Jayasankar**, S.Prabhu, .D.Tensing , *“Online image processing system using multispectral image using ASP.NET ”*, International Conference on Emerging trends in Electrical Electronics and communication systems ICEEECS16, 24-26 th Sept 2016, organized by Anna University BIT Campus Tiruchirappalli,.(ISBN:819211289-6).
- 7) **T.Jayasankar**,K.Sriram, S.Vengatesh and D.Vetrivel, *“Analysis Of Fuzzy Logic And Neural Network Approach in Classifying Gender Identification For Speech Recognition”*, International Conference on Emerging trends in Electrical Electronics and Communication Systems ICEEECS16 24-26 th Sept organized by Anna University BIT Campus Tiruchirappalli , (ISBN:819211289-6).
- 8) Senthilnathan.N, **Jayasankar.T**, Thandayuthapani.R, *“Adaptive Block Differential Prediction Approach In Lossless Plenoptic Image Compression”*, International Conference on Emerging trends in Electrical Electronics and Communication Systems ICEEECS16, 24-26 th Sept, organized by Anna University BIT Campus Tiruchirappalli, ISBN:819211289-6,PP 33-38.
- 9) **T.Jayasankar** ,J.Arputha vijayasaelvi & Appas, *“Enhancement of Speaker Identification System Using Modified MFCC and Pitch Based MFCC in Noise Environment ”*, IEEE Sponsored 1st International Conference on Emerging Trends in Engineering, Technology and Science ICETETS-2016 24-26 th February 2016 organized by Kings College of Engineering Pudukkottai, ISBN NO 9789385 05 7021,PP 65-69.
- 10) Vishnupriya E, **T.Jayasankar** , *“Performance Analysis of Optimum Routing Protocols in Wireless Sensor Networks,”* ICEICT 2015 February 6 th 2015 organized by M.A.M College of Engineering Trichy.
- 11) Sathya K, **T.Jayasankar** , *“Intelligibility Detection of Pathological Speech using Mul*

tilayer Artificial Neural Network", IEEE Sponsored 9th International Conference on Intelligent Systems and Control ISCO'15 on 9-10 January 2015 organized by Karpagam College of Engineering Coimbatore.

- 12) C.Senthilkumar, **T.Jayasankar**, J.Arputha Vijayaselvi "*Tamil Words Speech Synthesis in Cochlear Implant Using Acoustic Model*", International Conference on Recent Trends in Engineering and Technology (ICRTET'14) organized by Mount Zion College of Engineering & Technology, 13-14 March 2014.
- 13) K.R.Prema, **T.Jayasankar**, "*Audio and Speech Signal Watermarking*" International Conference on Advanced Computing, Control Systems, Machines and Embedded Technology", (ICACT 2014) organized by JKKN College of Engineering & Technology, 13-14 March 2014, ISBN:978-93-80757-74-2.
- 14) P.Gopalakrishnan, **T.Jayasankar**, "*Adaptive Visual Tracking for Human Detection*", International Conference on Advanced Computing, Control Systems, Machines and Embedded Technology", (ICACT 2014) organized by JKKN College of Engineering & Technology, 13-14 March 2014 .ISBN:978-93-80757-74-2.
- 15) A. Arokkiaraj, **T. Jayasankar**, "*OFDM Based Spectrum Sensing in Time Varying Channel*", IEEE International Conference on Advances in Engineering and Technology –(ICAET 2014) on May 2nd and 3rd organized by EGS Pillay Engineering College Nagapattinam.
- 16) M. Nuthal Srinivasan, **T. Jayasankar**, "*Effects of ECG Signals in the EMG Signal*", IEEE International Conference on Advances in Engineering and Technology –(ICAET 2014) on May 2nd and 3rd organized by EGS Pillay Engineering College Nagapattinam, ISBN NO.978-1-4799-4949-6.
- 17) A. Arokkiaraj, **T. Jayasankar** "*OFDM Based Spectrum Sensing in Time Varying Signals*", International Conference on Power, Circuits and Communication (CENNOVA '14) on April 4th organized by Mahatma Institute of Engineering and Technology .
- 18) C.Mathuvanesan, **T.Jayasankar** "*Singularity and Irregular Detection in Bio Signals using Lipchitz Exponent Function* ", in IEEE-International Conference on Research and Development Prospects on Engineering and Technology (ICRDPET2013) March 2013, ISBN 978-1-4673-4948-2-, page no-340.

- 19) S.ArokiaMagdaline, **T.Jayasankar** “*Reconfigurable Computing Architecture for Wireless Sensor Networks*”, in International Conference on Innovative Trends in Computing & Technology(ICITCT'13), March 2013.
- 20) K.Sujatha ,**T.Jayasankar** ” *Design and Implementation of Numerical Text to speech for Tamil in FPGA*”, International Conference on Futuristic trends in Electronics Engineering organized by Thiruvalluvar College of Engineering Technology,2-3 March 2013.
- 21) **T.Jayasankar**, P.GeethaBai ,”*Embedded Unit Selection With Reduced Database For Text To Speech Synthesis*”, in International Conference on Innovative Research in Engineering and Technology, PARK College of Engineering, Coimbatore, Aug12-14, 2010.
- 22) **T.Jayasankar** , J. Arputhavijayaselvi, R.Rajendran, “ *Realization of Tamil syllables Text to Speech Transferring System using FPGA*”, in Tamil Internet Conference Coimbatore, June 23-27, 2010.

(iii) National Conferences

- 1) R.Ponni, **T.Jayasankar**, “A Survey on MANET with LAR in Disaster Management”, National Conference on Emerging Trends in Electronics and Communications Engineering(NCETECE-19), Kings College of Engineering Thanjavur, March 15, 2019.
- 2) M.G.Kavitha ,**T.Jayasankar**, “ A survey on Localization for Mobile Wireless Networks,” in National Conference on recent Innovation in Engineering and Science NCORIES'18 at University College of Engineering, Pattukkottai Campus, on April 6th 2018.
- 3) R. KirubaBuri ,**T.Jayasankar**, “Differential Evolutionary Algorithm For Intrusion Detection And Prevention In Mobile Ad-Hoc Networks,”in National Conference on recent Innovation in Engineering and Science NCORIES'18 at University College of Engineering, Pattukkottai Campus on April 6th 2018.
- 4) **T.Jayasankar**, “Analysis of adaptive fractional deep belief networks and reinforcement learning in speaker emotion recognition system,” in National Conference

e on Futuristic Trends in Signal Processing FTSP 17 at K.S.K College of Engineering & Technology, Kumbakonam on March 2017.

- 5) **T.Jayasankar**, D.Vetrivel, Sriram.K, Vengatesh.S, "A study on Electromyography based speech recognition.," in National Conference on Nascent Technologies in Signal Processing and Communication (NT-SIPCOM' 16) Anna University ,BIT Campus, Tiruchirappalli on 01-09-16 to 02-09-2016, ISBN: (9789380622-16-3).
- 6) **T.Jayasankar**, Nivashini.V, Preethi.V, Rajarajeswari.K, Rajeshwari.R, "Genetic Algorithm based space robotics for perception in planetary exploration," in National Conference on Nascent Technologies in Signal Processing and Communication (NT-SIPCOM' 16) Anna University ,BIT Campus ,Tiruchirappalli on 01-09-16 to 02-09-2016, ISBN-9789380622-16-3, PP 153-157.
- 7) **T.Jayasankar**, Menaka.R, Jeyalakshmi.R, "Data mining technology using K-NN method ," in National Conference on Nascent Technologies in Signal Processing and Communication (NT-SIPCOM' 16) Anna University ,BIT Campus, Tiruchirappalli on 01-09-16 to 02-09-2016, ISBN-9789380622-16-3, PP 153-157.
- 8) E.VishnuPriya, **T.Jayasankar**, "A survey of Optimum Routing Protocols in Wireless Sensor Networks.," in National Conference on Nascent Technologies in Signal Processing and Communication (NT-SIPCOM' 14) Anna University ,BIT Campus, Tiruchirappalli on Nov 27-28 2014.
- 9) U.Jeyamalar, N.Mangaiyarkarasi, **T.Jayasankar**, "FPGA Implementation Time Efficient High Performance VLSI Adders," National Conference on Digital Processing and Communication in Anna University of Technology Tiruchirappalli on April 2011.
- 10) S.V.VijayaKarthik ,**T. Jayasankar**, "Detection Of Lung Nodule From CT Images by Using Geometrical Constraint Region Growing Method", National Conference on Digital processing and communication NT SIPCOM'11 in Anna University of Technology Tiruchirappalli on April 2011.
- 11) S.Rajeswari, **T. Jayasankar**, "Blurred Image Recognition by Legendre Moment Invariants", National Conference on Emerging Trends in Engineering Management & Computer Application ,Anna University of Technology Tiruchirappalli on April 2011.
- 12) **T.Jayasankar**, C.Baskar, "FPGA Implementation Of Tamil Syllables", in National Conference of Industrial Technology-10, Bannari Amman Institute of Technology ,Sa

thyamangalam, March 2010.

- 13) **T.Jayasankar**, P.Senthilkumar, "Speech Synthesis Methodologies for Indian Language", in NACOFEE-09, Kings College of Engineering Thanjavur.
- 14) **T.Jayasankar**, "Realization of OFDM in FPGA", in National Conference on Frontier Research Areas in Communication, Computer and Control Engineering-CoFRACC CE-09, Kings College of Engineering Thanjavur.
- 15) **T.Jayasankar**, P.Geetha Bai, "Face Recognition System Using ANN Approach", Frontier Research Areas in Communications, Computer and Control Engineering-08, Kings College of Engineering Thanjavur, March 6-8 2008.
- 16) **T.Jayasankar**, R.Tiruvengatam, "Distributed Sensors Data Communication-An Effective Coding Approach", National Conference on Advance in Computer and Communication Periyar Maniyammai College of Technology for Women, Thanjavur.

Professional Society Memberships

- Life member of ISTE
- Member of Institute of Engineers(India)

Resource Person / Expert Member for Conference / Seminar/ Workshop /Symposium

- Delivered Guest lecture on "**Brain Machine Interface**" Five Days Online FDP on Trends in Communication on 30.05.20 at Sir CRR Reddy College of Engineering, (Autonomous), Andhra.
- Served as an Expert member for National level Technical Symposium "**GLITZ 2020**" on 24th February at University College of Engineering, Pandruti.
- Delivered Guest lecture on "**Machine Learning concepts in Biomedical Applications**" on 21.02.20 at Mahendra Engineering College (Autonomous), Namakkal.

- Served as Resource person for **Anna University Sponsored Faculty Development Programme on EC8251 Circuit Analysis on 03.12.2019** at Government College of Engineering, Srirangam, Trichy.
- Served as Resource person for **Anna University Sponsored FDP EC8251 –Circuit Analysis** on 03.12.19 at Government College of Engineering Srirangam, Trichy.
- Served as Chief Guest and Resource person for **CSIR Sponsored Two days National Level workshop on Artificial Intelligence in Neurosciences: A Clinicians Perspective** on 18.12.19 at SSM Institute of Engineering and Technology, Dindigul.
- Served as an Expert member for **“A National Level Technical Symposium MICFA ’19** on 26.09.19 to 27.09.19 at University College of Engineering, BIT Campus, Anna University, Trichy.
- Delivered Guest lecture on **“Microwave Tubes and Measurements”** on 24.08.19 at Kings College of Engineering, Pudukkottai.
- Served as Chief Guest and delivered lecture on **“Recognition of motor imagery in EEG”** on 7.09.2018 at Jayaram College of Engineering & Technology, Trichy.
- Served as Expert member and delivered lecture on **“Mobile Ad-Hoc Networks”** on 31.08.2018 in Periyar Techno Meet-State Level Paper Presentation at Periyar Polytechnic College, Thanjavur.
- Served as Chief Guest and delivered lecture on **“Brain Computer Interface”** on 03.08.2018 in ASCONICS-2018 at Sri Ramakrishna College of Engineering, Perambalur.
- Served as an Expert member and deliver lecture on **“Feature Extraction Techniques in Brain Computer Interface”** in SEE sponsored International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’18) organized by Karpagam Institute of Technology, Coimbatore to be held on March / 24th, 2018.
- Served as an Expert member and deliver lecture on **“Role of Brain Computer Interface”** in National Conference of Advanced Communication Computing Power System on 23.03.2018 at St. Joseph’s College of Engineering & Technology Thanjavur.
- Delivered lecture on **“Role an Artificial Neural Networks in Speech Recognition System”** on 08.09.2017 at RajaLakshmi Engineering College, Chennai.

- Served as Expert member and delivered lecture on **“Statistical based Speech Synthesis System”** on 01.10.2017 in National Level Technical Symposium SLV2K’17 at Kings College of Engineering, Pudukkottai.
- Served as Chief Guest and delivered lecture on **“Issues and Challenges in Speech Processing”** on 17.03.2017 in 2nd National Level Conference NAPTAC’17 at K.S.K College of Engineering and Technology, Kumbakonam.
- Served as an Expert member for **“National Conference on Signal Processing and VLSI Design”** on 28.12.16 at Kings College of Engineering, Pudukkottai.
- Served as an Expert member for **“TEQIP II Sponsored National Conference on NT-SIPOM’16** on 01.09.16 to 02.09.16 organized by Department of ECE, University College of Engineering, BIT Campus, Tiruchirappalli.
- Delivered lecture on **“Real Time Applications in Speech Processing”** on 05.07.16 at Department of ECE, Sudarsan Polytechnic College, Pudukkottai.
- Served as Chief Guest and delivered lecture on **“Role of in Speech Processing”** on 10.03.2016 in 1st National Level Conference NAPTAC’16 at K.S.K College of Engineering and Technology, Kumbakonam.
- Served as an Expert member for **“Mini Project EXPO-2016”** on 12.03.16 at Kings College of Engineering, Pudukkottai.
- Delivered lecture on **“RF Amplifier and Oscillator Design”** on 12.09.15 at Department of ECE, K.S.K College of Engineering and Technology, Kumbakonam.
- Served as an Expert member for **“National Level Technical Symposium SAELCO ELECCTRO CALIFA2K15”** on 30.09.15 organized by Department of ECE, University College of Engineering, Ariyalur.
- Served as an Expert member and delivered lecture in **“FPGA based Signal Processing”** on 22.03.2014 in AICTE Sponsored Projects EXPO-Electro waves 2k14 on Electrical, Electronics, Instrumentation Communication and Control Engineering” at Kings College of Engineering, Pudukkottai.
- Served as an Expert member for **“TEQIP II Sponsored National Conference on NT-SIPOM’14** on 15.10.14 to 16.10.14 at University College of Engineering, BIT Campus, Tiruchirappalli.

- Served as an Expert member for National level Technical Symposium “**EBLAST 2010**” on 8th Sept Kings College of Engineering, Pudukkottai.
- Delivered lecture on “**Fiber Optical Receivers and Digital Transmission System**” on 13.09.08 at Department of ECE, Shri Angala Amman College of Engineering and Technology, Tiruchirappalli.

Conference / Seminar/ Workshop /Symposium Organized

- One day National Level Workshop in “**Advanced Signal Processing using MATLAB**”, on 09-09-2019.
- Two days National Level Workshop in “**Emerging Trends on Biosignal Processing , Biomaterials & Instrumentations of Medical Device for Health Care Applications**”, on 07-08-2019 to 08.08.19.
- One day National Level Workshop in “**Analog Discovery Kit**”, on 07-06-2019.
- Two days National Level Workshop in “**IoT -LoRa**”, on 01-09-2017 to 02.09.17.
- Two days National Level Technical Symposium “**TROY 17**” on Mar 28-29.
- TEQIP- II Sponsored “**International Conference Electrical Electronics Communication System ICEEECS’16**”, on Sep 24-26, 2016.
- TEQIP Sponsored “**Value Added Course on Internet of Things**” on Sep 28-09.16 to 02.10 16.
- TEQIP Sponsored Two days National Level Technical Symposium “**TROY 16**” **March** 3-4, 2016.
- TEQIP Sponsored Two days National Level Technical Symposium “**TROY 15**” Oct 30-31, 2015.
- Workshop on “**RENESAS RL 78-16**” on March 18, 2015.
- TEQIP Sponsored Two days National Level Workshop on “**VLSI Design Lab using CADENCE Tool**”, Mar 26-27, 2015.

- TEQIP- II Sponsored Two days National Level Workshop on “**System design using LABVIEW**”, March 13-14, 2014.
- TEQIP Sponsored Two days National Level Technical Symposium “**ESPIL 14**”, March 19-20, 2014.
- One day National Level Technical Symposium “**TROY 14**”, Oct 30 2014.
- TEQIP- II Sponsored Two days National Level Seminar on “**Internet Programming**”, Oct 8-9, 2013.
- Two days National Level Seminar on “**Speech Processing and its Applications**”, July 23-24, 2010.

Seminars/ Workshops Attended

- Three Weeks Industrial Training on “Communication and Networking Technologies” organized by Rajiv Gandhi Memorial Telecom Training Center, BSNL, Chennai, from 1.06.2020 to 19.06.2020.
- AICTE– ATAL Sponsored One Week FDP on “ **Internet of Things and its Applications**” organized by Department of CSE at Government College of Engineering, Srirangam, Trichy, from 04-11-19 – 08-11-19.
- Two days National Level Workshop for “**IoT Development with Webapp on Flask framework**” on 24.09.19 to 25.09.2019 organized by Dept. of MCA, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli.
- Anna University Sponsored Seven days Faculty Development Training Programme on “ **Control Systems** ” Organized by Department of EEE at at University College of Engineering, BIT Campus, Anna University, Trichy from 15-05-18 – 21-05-18.
- SERP Sponsored Two days National Workshop on “**Recent Advancements in Embedded Systems with IoT (Internet of Things) and its Applications**” organized by Department of Physics, at University College of Engineering, BIT Campus, Anna University, Trichy from 20-04-18 – 21-04-18.

- One day National Workshop on “ **Modeling and Simulation of Energy Systems** ” Organized by Department of EEE at at University College of Engineering, BIT Campus, Anna University, Trichy on 27-03.18.
- Five days Faculty Training Programme on “**Mobile Computing**” organized by Department of CSE at Anjalai Ammal-Mahalingam Engineering College, Thiruvarur from 20- 11-17 – 24-11-17.
- AICTE Sponsored Two weeks FDP in “ **Internet of Things (IoT) Issues and Challenges**” organized by Department of CSE& IT, at M.A.M College of Engineering, Trichy from 06- 11-17 – 19-11-17.
- Three days National Level Workshop for “**Open Source Simulators for Wireless Communication and Networks**” on 03.08.17 to 05.08.2017 organized by Dept. of ECE University College of Engineering, BIT Campus, Anna University, Tiruchirappalli.
- One day Workshop in “ **IoT and Android App Development using Matlab / Simulink**” on 22.07.17,organized by Dept. of ECE in University College of Engineering, BIT Campus, Anna University, Tiruchirappalli.
- One day Faculty Training Program on “ **Advanced Communication Systems** ” on 11th July 2017, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli.
- TEQIP- II Sponsored Two weeks FDP in “**Enhancement of Class Room Communication ECC 16**” organized by Dept. of English, at Anna University, Trichy from 18-07-16 – 31-07-16.
- TEQIP II Sponsored Seven days FDTP in “**Emerging Trends in Mathematical Modeling and Simulations (ETMMS’ 15)**”organized by Dept. of Maths, at Anna University, Trichy from 08-05-15 – 14-05-15.
- Seven days FDTP in “**Electronic Circuits II**” organized by Dept. of ECE, Kings College of Engineering, Pudukkottai from 08-12-14 – 15-12-14.
- Three days National Workshop on “**Essentials of Embedded System**” on 05th & 07 th Mar 2014, organized by SEED Ooty.
- Five days Training Programmed in “**Natural Language Processing**”at Periyar Maniyammai University Thanjavur from 06-11-13 – 09-11-13.

- TEQIP II Sponsored Seven days FDP in **“Nascent Technologies in Signal Processing”** at Anna University, Trichy from 11-12-13 – 17-12-13.
- Seven days FDP in **“A Compendium in High speed and Mobile Networks”** at Anna University, Trichy from 05-08-13 – 11-08-13.
- UGC sponsored **“110th Orientation Course”** at Academic Staff College, Pondicherry University from 19.12-12 – 15-01-13.
- Two days Workshop on **“Tamil Computing and Open Source”** on 07th & 08th Sept 2012, Anna University, Chennai.
- Two days National Workshop on **“Advanced Signal Processing”** on 06th & 07th Jan 2012, Organized by Dept. of ECE, Saranathan College of Engineering, Tiruchirappalli.
- Two days National Workshop on **“Design Optimization using XILINIX Plan Ahead & Partial Reconfiguration”** on 16th & 17th December 2011 Organized by Dept. of ECE, Oxford Engineering College, Tiruchirappalli.
- Two days National Workshop on **“Design Issues and Research Challenges of OFDM in Wireless Networks”** on 04th & 05th Feb 2011, Organized by Dept. of ECE, Anna University of Technology, Tiruchirappalli.
- One days National Workshop on **“Teaching Methodologies”** on 8th Jan 2011, organized by Dept. of English, Anna University of Technology, Trichy.
- Two days National Workshop on **“Networking Simulator Tools”** on 17th & 18th July 2010, Organized by Dept. of ECE, Anna University, Trichy.
- Two days Workshop on **“ DSP in LABVIEW”** on 22th & 23th Sep 2009, at Anna University Trichy.
- Two days Faculty Development Programme on **“ VLSI Design”** on 14-03-09 – 15-03-09, at SASTRA University Thanjavur
- Three days National Level Workshop on **“Digital Imaging and Video Processing”** on 07-11-08 – 09-11-08, Organized by Dept. of ECE, National Institute of Technology Trichy.
- One day National Level Workshop on **“Biologically Inspired Algorithms for DSP”** on 17th Apr 2008, Organized by Dept. of ECE, National Institute of Technology Trichy.
- One day National Seminar on **“Intellectual Property Rights”** on 10th Jan 2008, at Kings College of Engineering Pudukkottai.

- Two days National Level Workshop on “**Special Topics in Microwaves**” on 18th & 19th Sep 2008, Organized by Dept. of ECE, National Institute of Technology Trichy.
- Seven days Faculty Development Programme on “**Waves and Waveguides**” on 29-11-2004- 04-12-2004, Organized by Dept. of ECE, Sri Venkateswara College of Engineering Chennai.
- One day National Seminar on “**E-Governance in Educational Perspective**” on 12th October 2002, Organized by Department of ECE, Periyar Maniyammai College of Technology for Women, Thanjavur.