

**Dr.T.Jayasankar ,**  
**Senior Assistant Professor, Department of ECE,**  
**University College of Engineering BIT Campus, Anna University**  
**Tiruchirappalli.**

### **Journal Publications**

- 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.B<sup>3</sup>, 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**<sup>4</sup> 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 I)**  
<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 Base 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) Steph. 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) Steph. 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); EISSN: 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 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)**

**DOI: <http://dx.doi.org/10.18576/amis/110322>**

- 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 1 9, 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.