

PUBLICATION LIST

Publication Count

▪ International Journals	: 43
▪ Book Chapters	: 4
▪ International Conferences	: 27
▪ National Conferences	: 6
▪ Total count	: 80

A. Journals:

1. B.LakshmiPriya, **K. Jayanthi**, Biju Pottakkat and G. Ramkumar,” GoogleNet based Ensemble FCNet Classifier for Focal liver lesion Diagnosis”, **IEEE Journal of Biomedical and Health Informatics** 2019 (early Access) Print ISSN: 2168-2194 online ISSN 2168-2208 Digital object Identifier: 10.1109/JBHI.2019.2942774.(Q1 journal)
2. M, Kamaeshwaran., **K, Jayanthi**. & K, Arunachalam, “Multivariate N-bEATS Algorithm for Vehicular Traffic Flow Prediction Analysis For Indian Road Scenario. Springer *Int. Journal Intelligent Transportation Systems Research*, 13th May (2025). <https://doi.org/10.1007/s13177-025-00493-w> (Q2)
3. D Prasad , **K Jayanthi** , Pradeep Tilakan, Early Alzheimer’s Disease Detection Through Targeting the Feature Extraction Using CNNs, International Journal of Advanced Computer Science and Applications, Vol. 16, No. 1, 2025.(Q3)
4. **Lakshmipriya, B.**, Pottakkat, B., Ramkumar, G., & **Jayanthi, K.** (2024). Identification of optimal semantic segmentation architecture for the segmentation of hepatic structures from computed tomography images. *Multimedia Tools and Applications*, 1-30. (SCI Indexed - Impact Factor:3.6 (Q1)).
5. **Lakshmipriya, B.**, Pottakkat, B., Ramkumar, G., & Jayanthi, K. (2024). Automated 3D Visualization and Volume Estimation of Hepatic Structures for Treatment Planning of Liver Tumours. *HPB*, 26, S824 (Abstract only).
6. **Lakshmipriya, B.**, Jayanthi, P. K., Pottakkat, B., & Ramkumar, G. (2024). Comparative evaluation of volumetry estimation from plain and contrast enhanced computed tomography liver images. *Biomedical Engineering/Biomedizinische Technik*, (0). (SCI Indexed - Impact Factor:1.7 (Q1))
7. **K.Jayanthi**, Mohan S, B. Lakshmi priya, “An integrated framework for emotion recognition using speech and static images with deep classifier fusion approach , Elsevier International Journal of Information Technology, Pub Date : 2022-02-23, DOI: [10.1007/s41870-022-00900-5](https://doi.org/10.1007/s41870-022-00900-5)
8. D. Santhosh Gupta, **K.Jayanthi** and A.AjithAnanthakrishnan “A Comprehensive Survey on Heart Disease Prediction Using Machine Intelligence” International Journal of Medical Research and Health Sciences, Volume.10 Issue.7 pp. no.60-68 July 2021,(Impact factor- 0.11)Indexed in: **ESCI (Thomson Reuters)**DOI:[10.21203/rs.3.rs-680505/v1](https://doi.org/10.21203/rs.3.rs-680505/v1).
9. B.LakshmiPriya, S. Jayalakshmi, **K.Jayanthi**, Saraswathi S and Poonguzali, “Scattering convolutional network based predictive model for cognitive activity of brain using empirical wavelet decomposition”,Elsevier - **Biomedical signal processing and Control**, vol.66, April 2021 (Impact factor- 3.880)
- 10.N.Jothy and **K.Jayanthi**, “QoS Aware and Secured Routing Algorithm Using Machine Intelligence in Next Generation VANET” *Springer - International Journal of System*

11. N.Jothy and **K.Jayanthi**, "Adaboost Triggered Extreme Learning Machine Algorithm for Traffic Flows Prediction in Vehicular Networks", **International Journal of Solid-State Technology**, vol. 63, no. 3, pp. 2974-2987, Oct.2020.(**Scopus Indexed**).
12. Lakshmipriya, B, **K. Jayanthi**, Biju Pottakkat & G. Ramkumar (2018): A Modified Framework for Multi Slice Image Fusion for High Contrast Liver Cancer Detection, **IETE Journal of Research**, Vol 66, No.2, June 2020. pp 139 – 149 DOI: 10.1080/03772063.2018.1479664. (SCI Indexed – Impact Factor:2.33 (Q3)).
13. Lakshmipriya, B, **K. Jayanthi**, Biju Pottakkat & G. Ramkumar, "An Image Enhancement Approach to Liver Lesion Diagnosis using Unenhanced CT", **IET Computer Vision**, vol. 12, no.8, Dec 2018 pp 1078 – 1087 (SCI Indexed – Impact Factor:1.95 (Q2))
14. N.Jothy, **K.Jayanthi**, R. Gunasundari, "A combined modified opportunistic Neighbour selection and vehicle localisation routing approach for improved connectivity in Indian Road scenario", *International Journal of Engineering and Technology*, Vol.7, No 3.16, Special Issue no.16, July 2018.
15. Ramakrishnan Krishnan, **Jayanthi K.** Pragatheeswaran, and GoshaidasRay,"Robust Stability of Networked Load Frequency Control Systems with Time-Varying Delays ",*Electric Power Components and Systems*" (Taylor and Francis Publishers), 45(3):302–314, 2017(citations No. 3), DOI 10.1080/15325008.2016.1248249
16. T.R Anagha, B.Shoba and **K.Jayanthi**, "Low complex primary and secondary synchronization signal design for LTE downlink systems", *International journal of Electrical and Electronics Engineers*, vol no.9, issue no1, pp.139-145, January 2017.
17. N.Gayathri and **K.Jayanthi**, "An Opportunistic CSI based handoff scheme for VANETS", *International Journal of Science and Innovation Engineering and Technology*, ISBN 978-81-904760-9-6, March 2017.
18. G. Vallathan , K. Balachandran and K. Jayanthi, "Enhanced Data Security and Integrity using Contourlet Transform for Medical Images", *Indian Journal of Science and Technology*, Vol 10(8), DOI: 10.17485/ijst/2017/v10i8/104011, February 2017.
19. Prashanth.B.S and **K. Jayanthi** "An Efficient Noise Cancellation Approach suitable for Respiratory Sound Signals ",Vol. 14, CIC 2016 Special Issue - *International Journal of Computer Science and Information Security (IJCSIS)*, pp.48-50, 2016.
20. G. Vallathan, K. Balachandran and **K.Jayanthi**, "Segmentation based Security Enhancement for Medical Images", *Special Issue International Journal of Computer Science and Information Security (IJCSIS)*, Vol. 14, pp.55-59, 2016.
21. **Lakshmipriya, B**, K. Jayanthi, Dr. Biju Pottakkat & G. Ramkumar "An Effective Liver Cancer Diagnosis Technique through Multi – Temporal Fusion and Decorrelation Stretching" in the Special Issue *International Journal of Computer Science and Information Security (IJCSIS)*, Vol – 14, October 2016, pp. 22- 26.
22. Thilagam.K and **Jayanthi.K**, "A Novel Chaotic MIMO-OFDM system for Improved Performance in Future Cellular Wireless Networks", *International Journal of Communications*, Vol. 1, No. 1, pp.75-85, January 2016.
23. Vallathan G, K.Balachandran, **K.Jayanthi**, " Provisioning of Enhanced Medical Data Security and Quality for Telemedicine Applications", *International Journal of Intelligent Engineering and Systems*, Jan 2017. DOI: 10.22266/ijies2017.xxxx.xx
24. R. Sharanya and **K.Jayanthi**, "Dynamic Power Tuning for Downlink Interference Mitigation in heterogeneous LTE networks",*ARNP Journal of Engineering and Applied Sciences*, Vol.10, No.4, pp.1810-1814, March 2015.

25. Thilagam.K and **Jayanthi.K**, "Improving Cellular Performance through Modified Golden Codes Combined with a New Chaotic Modulation Scheme", **International Journal of Wireless and Mobile Computing (IJWMC)**, Vol. 7, No. 5, September 2014, (Inderscience). DOI: 7. 485-494. 10.1504/IJWMC.2014.064817.
26. Thilagam.K and **Jayanthi.K**, "A Low Complex Modified Golden Code In A Cooperative Relaying System", *International Journal of Computer Networks & Communications (IJCNC)*, Vol.5, No.7, June 2014. DOI: 10.5121/ijcnc.2014.6106
27. Thilagam.K and **Jayanthi.K**, "Enhancing Future Wireless Systems through Advanced Physical Layer Mechanisms", **WSEAS Transactions on Communications**, Vol. 12, No. 12, December 2013, (Scopus Indexed).
28. Thilagam.K and **Jayanthi.K**, "A Novel Chaotic Modulation Scheme in a Cooperative Relaying Scenario", *International Journal of Computer Applications (IJCA)*, Volume 76–No.9, August 2013. DOI: 10.5120/13273-0783.
29. **K.Jayanthi**, Subash.c, Venketesh and Samynathan, "Reduced Link Failures through Autonomous Reconfiguration System For Wireless Mesh Networks", *International Journal of Engineering and Computer Science*, Vol.2, No.2, pp.288-292, Feb 2013. ISSN:2319-7312.
30. Thilagam.K and **Jayanthi.K**, "Multiuser BER Analysis of CS-QCSK Modulation Scheme In A Cellular System", *International Journal of Wireless & Mobile Networks (IJWMN)*, Vol. 4, No. 6, December 2012. DOI: 10.5121/ijwmn.2012.4611
31. B.Shoba and **K.Jayanthi**, "Performance Improvement of MIMO OFDM systems through channel estimation", *International Journal of Wireless & Mobile Networks*, Vol. 4, No. 5, pp.49-59, October 2012
32. Thilagam.K and **Jayanthi.K**, "Analytical Evaluation of a Hybrid Chaotic Shift Keying [CS-CSK] in a CDMA System", *International Journal of Computer Applications (IJCA)*, Volume 54– No.15, September 2012. DOI: 10.5120/8645-2544
33. **K.Jayanthi** and P.Dananjayan, "Improving antijamming characteristics of spread spectrum communication systems", Special issue on context awareness and self-managing systems - **International Journal of Autonomous and adaptive communication systems**, Inderscience publishers, vol. 5, No.1, pp.77-87, 2012. (ISSN.1744-2869) DOI: 10.1504/IJAACS.2012.044775.
34. S.Kalaimani and **K.Jayanthi**, "Spectral Entropy Based VAD Using Teager Energy Operator And HOS", *International Journal Of Electronics Circuits And Systems*, Vol. 1, issue no. 1, pp. 17-22, February 2012.
35. Pilla Jagadeesh and **K. Jayanthi**, "A Novel resolution Enhancement scheme based on edge directed interpolation using DT-CWT for satellite Imaging applications", *International Journal of Communication and Information Technology (IJCIT)*, Vol.2, No. 1, June 2011. (ISSN: 2218-5224). ISSN 2078-5828 (PRINT), ISSN 2218-5224 (ONLINE), MANUSCRIPT CODE: 110710
36. Kumaratharan.N, **Jayanthi.K** and Dananjayan.P, "Performance Enhancement of MC-CDMA System through STTC based STBC Site Diversity", *International Journal of Computer Science and Information Technologies*, vol.1, no.2, pp.86-92, 2010. (ISSN: 09759646) DOI:10.7763/IJCEE.2010.V2.105
37. **K.Jayanthi** and P.Dananjayan, "Channel Estimation for multi-user MIMO-OFDM system" *ICFAI University Journal of Telecommunications*, vol. II, No. 4, Nov. 2010.
38. **K. Jayanthi** and Sudha Nancy, "Chaotic code optimization for interference reduction in DS-CDMA systems", *International Journal of computer sciences and Engineering systems*, vol.4, no.3, pp.191-195, July 2010. (ISSN: 0973-4406).
39. **K.Jayanthi** and P.Dananjayan, "A novel link adaptation scheme for wideband CDMA systems", *ICFAI University Journal of Telecommunications*, Vol.1, No.1, pp.20-36, August 2009.
40. **K.Jayanthi**, K.Varadharajan, A.Arunkumar and P.Dananjayan, "Performance Enhancement Using Opportunistic Schedulers in Wireless Networks" **IETE, Journal of research** - Special issue on "Protocols for resource, link and mobility management for

- wireless and Satellite communication Networks”, vol.52,nos.2and3, pp.207-213 March-June 2006 (ISSN No. 0377-2063). DOI: 10.1080/03772063.2006.11416457.
41. **K.Jayanthi** and P.Dananjayan, “Multimedia QoS Provisioning using Opportunistic Scheduling in TDMA/ CDMA Networks”, **Int. J. Mobile Network Design and Innovation**, Inderscience Publishers, Vol.1, No.3/4, pp. 248-257, January 2006 (ISSN No. 1744-2869). DOI: 10.1504/IJMNDI.2006.012095
 42. **K.Jayanthi** and P.Dananjayan “Prediction Based Smart Scheduler Using Neural Network for Wireless Networks”, **AMSE Journal on Signal Processing and Pattern Recognition Advances**, France, vol 49, no.3, pp.13-24, 2006 (ISSN No. 0021-8936).
 43. **K.Jayanthi** ,K.Thenmozhi and P.Dananjayan, Traffic Enforcement Mechanism in ATM using neural network”, **IETE Technical Review**,vol 21, no.4, , pp.241-246, July-August 2004. (ISSN No. 0256-4602). DOI: 10.1080/02564602.2004.11417150

B. Books & Book Chapters /Conference Editor: (4 Nos.)

1. **Lakshmipriya, B.**, Pottakkat, B., Ramkumar, G., & **Jayanthi, K.** “Automated 3D visualization and volume estimation of hepatic structures for treatment planning of hepatocellular carcinoma” in *Advances in Computers*, April 2024.
2. **Lakshmipriya, B. K. Jayanthi**, Dr. Biju Pottakkat & G. Ramkumar, “Identification of a suitable transfer learning architecture for classification: A case study with the liver tumour” in *CUDLMC 2020: Computational Analysis and Understanding of Deep Learning for Medical Care: Principles, Methods, and Applications*, Scrivener Publishers (pp. 53-77).
3. **K.Jayanthi** Pragatheeswaran “QoS provisioning in cellular mobile networks”, International VDM Publishers with ISBN 978-3-639-37653-1
4. **K.Jayanthi** and R. Gunasundari, National Conference Proceedings – AICTE Sponsored First National Conference on Green Technology Concepts for bridging the digital divide- GREEN ICT 2013

C. Conferences (International /National):

1. M. Kamaeshwaran, **K. Jayanthi** and S. Seshan, "Real-Time Vehicular Traffic Flow Monitoring and Classification of Vehicles for Indian Road Scenario," 2023 Second International Conference on Advances in Computational Intelligence and Communication (ICACIC), Puducherry, India, 2023, pp. 1-5, doi: 10.1109/ICACIC59454.2023.10434978.
2. M. Kamaeshwaran and **K. Jayanthi**, “Ensembling Of Dense Layer Neural Networks For Real-Time Vehicular Traffic Forecasting,” *IEEE “International Conference on Computer Communication and Informatics (ICCCI’24)*, 29th & 31st Jan. 2024.
3. D Prasad, **K Jayanthi**, Pradeep Tilakan, “A Novel DAG 2D-CNN Framework for early Identification and Classification of Alzheimer’s Dementia, *IEEE “International Conference on Computer Communication and Informatics (ICCCI’24)*, 29th & 31st Jan. 2024.
4. D. Prasad, **K. Jayanthi** and P. Tilakan, "A Novel 3D-CNN with DAG Framework for Enhanced Alzheimer's Disease Diagnosis Using Structural MRI," 2025 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC), Silchar, India, 2025, pp. 1335-1340, doi: 10.1109/ISACC65211.2025.10969280.

5. Jothy, KirubaSandou and **K.Jayanthi** , Secured Routing In VANETs Using Lightweight Authentication And Key Agreement Protocol, Proceedings Of IEEE International Conference On Wireless Communication Signal Processing And Networking (WISPNET - 2018), SSN College Of Engineering And Technology, 22-24 March 2018.
6. R.Alamelu and **K.Jayanthi**, Effective Real Time Air Quality Sensing through Opportunistic Routing Protocol in WSN, Proceedings of IEEE International Conference on Wireless Communication signal Processing and Networking (WISPNET - 2017), SSN College of Engineering and Technology, 23-24 march 2017.
7. T. Nivedha And **K. Jayanthi**, Improving Security Using Aggregate Signature Scheme Against Different Attacks In WSN, Proceedings Of IEEE International Conference On Wireless Communication Signal Processing And Networking (WISPNET -2017).
8. B. Lakshmi Priya, S. Joshi Adaikalamarie and **K. Jayanthi**, “Multi-temporal Fusion of Abdominal CT Images for Effective Liver Cancer Diagnosis”, IEEE sponsored WISPNET 2016, pp.1452 – 1457. (978-1-4673-9338-6/16/\$31.00 ©2016.
9. Vallathan G, K.Balachandran, **K.Jayanthi**, Lossless Compression Based on Hierarchical Extrapolation for Biomedical Imaging Applications,International Conference on Microwave, Optical and Communcation Engineering, December 18-20, 2015, IIT Bhubaneswar, India.
10. B.Shoba and **K. Jayanthi**, “Low Complex Primary and Secondary Synchronization Signal Structure Design for LTE Systems”, Proceedings of International Conference on Microwave, Optical and Communication Engineering, IIT- Bhuveneswar, pp. 467-470, December 18-20, 2015. (978-1-4673-6981-7/15).
11. R. Sharanya and **K.Jayanthi**, “Dynamic Power Tuning for Downlink Interference Mitigation in heterogeneous LTE networks”, 9th IEEE International Conference on Intelligent Systems and Control, Coimbatore, 9th and 10th Jan 2015.
12. K.Gunasundari and **K.Jayanthi**, "Prioritized Dynamic Multi-traffic Scheduler for Downlink in LTE", IEEE – Second International conference on Innovations in Information, Embedded and Communication Systems, Coimbatore, 19th and 20th March 2015.
13. Selvarani M and **Jayanthi K**, Uplink Interference Mitigation through Cooperation Techniques in Overlay Networks, Proc of IEEE International conference on computational systems in Engineering and technology (ICCSET 2014), Chennai, pp.176-180 2014.
14. Thilagam.K and **Jayanthi.K**, “Modified Golden Codes for Improved Error Rates through Low Complex Sphere Decoder” CS&IT-Computer Science Conference Proceedings, WiMoA, pp-211-221, May 2013. DOI: 10.5121/csit.2013.3522
15. Thilagam.K and **Jayanthi.K**, “A Novel chaos based modulation scheme (CS-QCSK) with improved BER Performance”, CS&IT-Computer Science Conference Proceedings, CoNeCo, pp-45-59,October 2012 DOI: 10.5121/csit.2012.2406
16. ThamaraiSelvi **and K. Jayanthi**, “Efficient Speech Enhancement Technique By

- Exploiting the Harmonic Structure Of Voiced Segments”, proceedings of Intl. conference on recent Trends in Information Technology, organized by IEEE Madras section and MIT campus, Anna University, Chennai, June 3-5, 2011
17. Bhooma G , Kokila S, **Jayanthi K**, Jagadeesh Kumar V,” A Digital Instrument for Venous Muscle pump Test”, Proceedings of 2011 IEEE International Instrumentation and measurement Technology conference, pp. 466-469, China, May 2011. DOI: (10.1109/imtc.2011.5944063).
 18. Pilla Jagadeesh **and K. Jayanthi**, “Image Resolution Enhancement based on Edge Directed Interpolation using Dual Tree – Complex Wavelet Transform”, Proceedings of Intl. conference on recent Trends in Information Technology, organized by IEEE Madras section and MIT campus, Anna University, Chennai, June 3-5, 2011
 19. N. Tamilarasan, **K. Jayanthi** and P. Dananjayan, “ Mobility based call admission control for CDMA Systems supporting integrated voice/ data, Proceedings of IEEE International conference on computational intelligence and applications (ICCIMA’07), vol. IV, pp.240-246, December 2007. DOI: 10.1109/ICCIMA.2007.382
 20. **K. Jayanthi** and P. Dananjayan, “QoS provisioning in Wireless networks using opportunistic Scheduling, Proceedings of IEEE International Conference on multidisciplinary aspects of Engineering and Technology, (IMAE 05), Bombay January 2005
 21. K. Jayanthi and P. Dananjayan, “Performance Improvement Using Opportunistic Scheduler in CDMA Systems”, Proceedings of International Union of Radio Science, URSI, New Delhi, October 2005.
 22. K. Jayanthi and P. Dananjayan, “Performance Improvement in High capacity mobile Network using Call Admission Control Scheme”, Proceedings of International Union of Radio Science, URSI, New Delhi, October 2005.
 23. **K. Jayanthi** and P. Dananjayan, “A Predictive multimedia CAC for prioritised handovers in wireless mobile networks”, Proceedings of IEEE International conference on communications and International conference on networking” (MICC-ICON 2005), Malaysia, Kulalampur, November 2005. DOI: 10.1109/ICON.2005.1635541 (IEEE Catalog No. 05EX1235C ISBW: 1-4244-0001-5)
 24. **K. Jayanthi** and P. Dananjayan, “A link adaptive Power control scheme for wideband CDMA system”, Proceedings of IEEE International conference on communications and International conference on networking” (MICC-ICON 2005), Malaysia, Kulalampur, November 2005. (IEEE Catalog No. 05EX1235C ISBW : 1-4244-0001-5) DOI: 10.1109/ICON.2005.1635622
 25. **K. Jayanthi** and P. Dananjayan, “Mobility predictive call admission control for wireless multimedia services”, Proceedings of IEEE Wireless and Optical communication Networks (WOCN 2006), Bangalore, April 2006. DOI: 10.1109/WOCN.2006.1666588 (IEEE Catalog No. 06EX1360C ISBW : 1-4244-0340-5)
 26. **K. Jayanthi** and P. Dananjayan, “Integrated QoS framework for maximizing throughput in cellular mobile networks”, Proceedings of IEEE Wireless and Optical communication Networks (WOCN 2006), Bangalore, April 2006. DOI: 10.1109/WOCN.2006.1666589
 27. **K. Jayanthi** and P. Dananjayan, “Optimal resource utilization for real-time MPEG over ATM network”, Proceedings of IEEE TENCON2003, Bangalore, October 2003 DOI: 10.1109/TENCON.2003.1273379

National Conferences:

28. B. Lakshmi Priya, **K. Jayanthi**, BijuPottakkat& G. Ramkumar, “ Decision Support System for Liver Cancer Diagnosis using focus features in NSCT Domain” Proceedings of National Conference on Communications – NCC 2019 held at IISC, Bangalore during 21-23 February 2019.
29. **K.Jayanthi**, R.Gunasundari, E.Srinivasan and S.Palanivel, “Perspectives on Teaching –Learning process in higher Technical Education”, 42nd ISTE National Annual Convention, Anurag Group of Institutions, Hyderabad, Dec 2012.
30. **K.Jayanthi** and P.Dananjayan, ”A Novel CAC Scheme for Heterogeneous Services in Cellular Mobile Networks”, Proceedings of National Conference on Communications, NCC 2005, IIT Kharagpur, January 2005
31. **K.Jayanthi** , G.F. Sudha and P. Dananjayan, “GFR - A New Service Category to Support TCP Traffic over ATM”, Proceedings of National Conference on Communication, NCC 2004, IISC, Bangalore, Jan 2004.
32. **K.Jayanthi** and P.Dananjayan, “Smooth Play out Mechanism for realtime Traffic over Wireless Networks”, Proceedings of National conference on Emerging trends in Communication and Networks, AECOVISION-2003, Arunai Engineering College, Thiruvannamalai, December 2003
33. **K.Jayanthi** and V.Puviarasi, "Echo Suppression in ATM over PSTN Networks", Proceedings of National conference on signals, systems & security, organized by PSG college of Technology, Coimbatore, March 2002.

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