

Journals Publications (2019-2020)

1. **AM Abirami**, M Palaninatha Raja, "Evaluating the Quality of Final Examination Question Paper in Engineering Education", Journal of Engineering Education Transformations, vol. 33, pp. 170-174, 2020 (SCOPUS Indexed) - **0.143**
2. **C Jeyamala, AM Abirami**, "Enhancing Student Learning and Engagement in Freshman Course on Problem Solving Using Computers", Journal of Engineering Education Transformations, vol. 33, pp. 192-200, 2020 - **0.143**
3. **S.Selvakumar, A.Sheik Abdullah, R.Suganya**, "Decision Support System for Type II diabetes and its risk factor prediction using Bee based harmony search and Decision tree Algorithm", International Journal of Biomedical Engineering and Technology, Inderscience Publishers. Vol. 29, No. 1, 2019, Impact Factor:0.60 [Indexed in SCIE, Scopus] - **0.567**
4. **CV Nisha Angeline, K. Indira, C. Santhiya** Co-authored a paper titled "Patient oriented decision making as a service using health IOT-cloud" in the Journal of International Pharmaceutical Research, 2019, pg 821-828, ISSN: 1674-0440
5. **C.Santhiya and S.Padmavathi**, "Deadlock Avoidance Using SNA Based Resource Optimization in Cloud-Fog Environment," Journal of Test Engineering and Management, May-June 2020 ISSN: 0193-4120 Page No. 29365 - 29372.
6. **E. Ramanujam, S. Padmavathi** 'A Review on Time Series Motif discovery techniques an Application to ECG Signal classification', International Journal of Artificial Intelligence and Machine Learning, Vol. 9, No. 2, 2019, IGI Publisher.
7. **Indira, K.**, Kavithadevi, M.K. Efficient Machine Learning Model for Movie Recommender Systems Using Multi-Cloud Environment. Mobile Netw Appl 24, 1872-1882 (2019). - **1.456**
<https://doi.org/10.1007/s11036-019-01387-4>. Published 16 October 2019 Issue Date December 2019 DOI <https://doi.org/10.1007/s11036-019-01387-4>
8. **K.V.Uma**, M. Deebika, I. Rathna, Vairam Sujitha M, Fraud detection in cheque truncation system, International Journal Of Management, Technology And Engineering, ISSN 2249-7465, (UGC Approved Journal), 2018
9. **Sridevi S**, Parthasarathy S, Chandrakumar T, Rajaram S, "A novel framework for forecasting time series data based on fuzzy logic and variants of hidden Markov model", accepted for publication in Int. J. Business Intelligence and Data Mining, Inderscience, 2020. (Indexed in Scopus) - **0.379**
10. M. Pradeepa, **C. Deisy**, "Enhancing purchase decision using multi-word target bootstrapping with part-of-speech pattern recognition algorithm" International Journal of Business Intelligence and Data Mining (IJBIDM), Vol. 15, No. 4, 2019, DOI: 10.1504/IJBIDM.2019.102805 - **0.379**
11. A.M. Rajeswari and **C. Deisy**, "Fuzzy logic based associative classifier for slow learners prediction", Journal of Intelligent & Fuzzy Systems, vol. 36, no. 3, pp. 2691-2704, 2019, DOI: 10.3233/JIFS-18748 - **0.793**
12. Merceline Fransis and **C. Deisy**, "Mathematical and Visual Understanding of a Deep Learning Model Towards m-Agriculture for Disease Diagnosis", Archives of Computational Methods in Engineering, Springer, DOI : 10.1007/s11831-020-09407-3, 2020 - **4.038**
13. **K.V.Uma**, C5.0 Decision Tree Model using Tsallis Entropy and Association Function for General and Medical Dataset, Intelligent Automation and Soft Computing, Vol-26, NO-1, 61-70, DOI 10.31209/2019.100000153, March 2020 - **0.850**
14. Chandrakumar T, Parthasarathy S, **Sridevi S**, Ramya T, "Consumer's Perception of Digital Transactions in India : Sentiment Analysis using R " accepted for publication in Int. J. of Business Information Systems, Inderscience, 2020. (Scopus Indexed) - **0.760**
15. S. Parthasarathy, T. Chandra Kumar, C. Sridharan, **S Sridevi**, "Quality assessment of Standard and customized COTS products," International Journal of Information Technology Project

- Management (IJITPM), IGI Global, 13, pp.1-13, 2020. (ESCI and Scopus Indexed) - **0.433**
16. Nagasubramanian, G., Sakthivel, R.K., Patan, R. **Muthuramalingam, S** et al. Securing e-health records using keyless signature infrastructure blockchain technology in the cloud. *Neural Comput & Applic* 32, 639-647 (2020). <https://doi.org/10.1007/s00521-018-3915-1,2020> - **1.895**
17. Sakthivel, RK, Nagasubramanian, G, Al-Turjman, F, , **Muthuramalingam Sankayya**. Core-level cybersecurity assurance using cloud-based adaptive machine learning techniques for manufacturing industry. *Trans Emerging Tel Tech*. 2020; <https://doi.org/10.1002/ett.3947> - **0.741**
18. C.Karpagavalli, **R.Suganya**, P.J.Beslin Pajila, "Authentication using Block chain novel enhanced Authentication algorithm" in *International journal of Advanced Science and Technology* ISSN: 2005-4238 IJAST,pp: 11930-11940, Vol. 29. No. 7 (2020)
19. **K.Indira**, Kavitha Devi, M.K. Multi Cloud Based Service Recommendation System Using DBSCAN Algorithm. *Wireless Personal Communication* (2020). <https://doi.org/10.1007/s11277-020-07609-3>. Published 25 August 2020. Impact Factor:1.06 - **0.701**
20. **K. Indira**, M.K. Kavitha Devi, Enhanced Recommender System For Managing Sparse Data In Secure Cloud For E-Business Management, *Advances in Mathematics: Scientific Journal*, Scopus. DOI: <https://doi.org/10.37418/amsj.9.8.41> Advances in Mathematics: Scientific Journal 9 (2020), no.8, 5731-5744, <https://doi.org/10.37418/amsj.9.8.4>

Conference Publications

1. **A.Sheik Abdullah**, KRA Bubesh, V Rishi Kumar, M.Karthickbabu, "Feature Extraction and Prediction of Lung cancer in CT Images with enhancement in Image Quality factors using combination of Deep CNN with Extreme Learning Machine", Seventh International Conference on Business analytics and Intelligence, Indian Institute of Management, Bangalore during 5-7 December 2019.
2. **A.Sheik Abdullah**, K Akash, Shamin Thres, S Selvakumar, "Sentiment Analysis of Movie Reviews using Support Vector Machine Classifier with Linear Kernel Function, presented in Eighth International Conference on Frontiers of Intelligent Computing:Theory and Applications (FICTA 2020), National Institute of Technology, Karnataka, Surathkal, during 4th-5th January 2020.
3. **S.Karthiga, K.Indira and C.V.Nisha Angeline**, "Machine Learning Model to Predict Birth Weight of New Born using TensorFlow" in "International Conference on Secure Reconfigurable Architectures & Intelligent Computing (SRAIC 2019)" held at NIT Tiruchirappalli, India during 28-30 November 2019
4. V. Gunamathi, M. Rashmi, H. Nilofar Nisa, **K.V.Uma**, Brain Image Segmentation For Tumor Detection Using Deep Learning,National Conference on Machine Learning and Artificial Intelligence ,Organised by Coimbatore Institute of Technology in association with Data Centre and Analytics Lab, IIM Bangalore & Analytics Society of India, August 26-27, 2019
5. P.Shobana,S.Nandhini,J.Keerthi,**K.V.Uma**,Detection Of Thyroid Disease By Using Feature Selection And Classification ,National Conference on Machine Learning and Artificial Intelligence ,Organised by Coimbatore Institute of Technology in association with Data Centre and Analytics Lab, IIM Bangalore & Analytics Society of India, August 26-27, 2019
6. **Suganya R**, S.Karthiga, A.Krishna Priya, S.Rajaram, "Intelligent Transportation System for Safety by using Wireless Sensor Network", in First International Conference on Electrical Electronics and Communication - ICEEC'16,(31-3-16 & 1-4-16) held at Alagappa Chettiar College of Engineering and Technology, Karaikudi. (Paper ID: WN07

7. **A M Abirami**, V Ganapathi Subramanian, G Ajay Aravindh, "Abstractive Text Summarization for Food Reviews using LSTM Model", 7th International Conference on Business Analytics and Intelligence (BAICONF) at IIM Bengaluru, Dec 5-7, 2019.
8. **C.Santhiya,K.Indra,Swetha**,"Cloud Service Prediction Using KCFC Approach,ICICV 2019: Intelligent Communication Technologies and Virtual Mobile Networks pp 353-362],13 August 2019.
9. **E. Ramanujam, S. Padmavathi**, G. Dharshani, M.R.R. Madhumitta, "Evaluation of Feature Extraction and Recognition for Human Activity using Smartphone based Accelerometer data",11th International conference on Advanced Computing (ICoAC 2019), Anna University, MIT Campuses, 18-20, December, 2019 [IEEE- xplore].
10. **E. Ramanujam, et al** "Improved Feature based Sentiment Analysis for Online customer reviews", International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2019), October 17-18, 2019 [Springer - Lecture Notes on Data Engineering and Communication Technologies]
11. **E. Ramanujam**, T. Chandrakumar, K. Nandhana, N.T. Laxmi, "Prediction of Fetal Distress using Linear and Non-Linear Features of CTG Signals", 3rd International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2019), September 25-26, 2019 [Springer - Advances in Intelligent Systems and Computing series]
12. Shruthi P,Varthana C, Varsha A, **K.V.Uma**,Prediction Of Breast Cancer Using Feature Selection And Classification,Seventh International Conference on Business Analytics and Intelligence,IIM Bangalore, 5-7 December, 2019
13. **P.Karthikeyan**, Vehicle Data Aggregation from Highway Video of Madurai City Using Deep Convolution neural network, Third International Conference on Computing and Network Communications, 2019
14. **D.Tamilselvi et.al.**, "Cognitive Rehabilitation for Autism Children Mental Status Observation Using Virtual Reality Based Interactive Environment", Springer Nature Switzerland AG 2020, T. Ahram et al. (Eds.): IHSI 2020, AISC 1131, pp. 1213–1218, 2020.https://doi.org/10.1007/978-3-030-39512-4_185.
15. **R.Suganya**, M.Kameswari, Impact and Importance of MCQ in TLP of Functions in Discrete Mathematics through ICT Tools in 5th International Conference on Transformations in Engineering Education ICTIEE, IUCEE, held at Hyderabad, Jan 6th to 8th 2020.
16. **R.Suganya**, Murugesan.S, Kameswari.M, Classification of PCOD based on Deep Features extracted from ultrasound images using RCNN in 7th International Conference on Business Analytics BAICONF 2019, IIM Bangalore, Dec 5-7, 2019
17. **R.Suganya**, P.Murugesan, C.Agasthiya, C.Ignatius, S.Aswin, C.Amuthalingeswaran, "Rainfall Forecasting for raising the yield production using Machine Learning Algorithms, in iCASIC, 2020, VIT Vellore, Feb 27th and 28th ,2020.
18. **R.Suganya**, Md.Mansoor Roomi, B.Prem kumar, T,Senthilkumar " Enhancing Intricate details of ultrasound PCOD scan images using Tailored Anisotropic Diffusion Filter (TADF)" in Third International Conference on Big data and Cloud Computing, Dec 6, 7, 2019. (Published in Springer)
19. **Sridevi S**, Mahalakshmi G, Saranya T, Parthasarathy S and Chandrakumar T, Forecasting Of Time Series Data Using Fuzzy Based Multi-granular Model, 19th Global Conference on Flexible System Management (Glogift- 19), IIT Roorkee,6-8 Dec 2019, pp.442-454.
20. T.Saranya, **S.Sridevi, C.Deisy**, Tran Duc Chung, M.K.A.Ahamed Khan, "Performance Analysis of Machine Learning Algorithms in Intrusion Detection System: A Review" accepted for publication in Procedia Computer Science, Elsevier, 2020
21. **S Sridevi** et al, "Analysis of a Modified Single Phase Multilevel Cascaded Inverter Circuit," 2020

- IEEE International Conference on Automatic Control and Intelligent Systems (I2CACIS), Shah Alam, Selangor, Malaysia, 2020, pp. 112-117, doi: 10.1109/I2CACIS49202.2020.9140197. (Scopus Indexed)
22. **Sridevi S** et al , "Hybrid 3D-ResNet Deep Learning Model for Automatic Segmentation of Thoracic Organs at Risk in CT Images", 2020 International Conference on Industrial Engineering, Applications and Manufacturing (ICIEAM), Sochi, Russia, 2020, pp. 1-5, doi: 10.1109/ICIEAM48468.2020.9111950. (Scopus Indexed)
23. R.S.Rampriya, **R.Suganya**, Segmentation of 3D Point Cloud Data based on Supervoxel Technique, Elsevier, Procedia Computer Science, Vol 171, pp. 427-435, 2020. <https://doi.org/10.1016/j.procs.2020.04.045>
24. **P. Karthikeyan, A. M. Abirami, M. Thangavel**, Paper Title: Blended Learning Practices for Improving the Affective Domain of K-12 Learners of Madurai District, TN, Springer Url: https://link.springer.com/chapter/10.1007/978-3-030-23162-0_72
25. **S.Thiruchadai Pandeewari, Dr.S.Padmavathi**, "Fog based Architectures for IoT - A survey on Motivations, Challenges and Solution Perspectives", Springer International Conference on Remote Engineering and Virtual Instrumentation, REV 2019, BMSCE, Bengaluru
26. S.J.Thiruvengadam, S.Saravana Perumaal, S.Baskar, **Jeyamala.C**, V.Abhai Kumar, Design Thinking Course Implementation n CDIO Based Undergraduate Programmes, 16 th International CDIO Conference, Research reports from Chalmers University of Technology Gothenburg, Sweden 2020 ISBN 978-91-88041-28-9
27. **Indira.K, Karthiga.S, NishaAngeline.C.V and C.Santhiya** Title:" Parallel CLARANS algorithm for Temporal FCA based recommendation system in Multi clouds" Conference Name: Springer 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT - 2020).July 23 and 24 2020

Books/Chapter Publications

1. **R. Suganya**, S. Rajaram, **A. Sheik Abdullah**, "Big Data in Medical Image Processing" 1st Edition, CRC PressPublished January 31, 2018, ISBN 9781138557246 CRC Press, Taylor and Francis Group.
2. **Santhiya, C,Indira**, K, Swetha. K,"Cloud Service Prediction Using KCFC Approach",Lecture Notes on Data Engineering and Communications Technologies,2020.ISSN: 2367-4512.
3. **Suganya Ramamoorthy**, S.Sujatha, Security Protocol for Cloud-Based Communication in book Design and Analysis of Security Protocol for Communication, Feb 2020, Wiley online libraryDOI: 10.1002/9781119555759.ch12
4. **Jeyamala.C**, Pavithra.V. Book Chapter on Developing Security Solutions for Telemedicine Applications: Medical Image Encryption and Watermarking, Smart Medical Data Sensing and IoT Systems Design in Healthcare, IGI Global, 2019.
5. Jenifer Ranjani. J, **Jeyamala.C**, Book Chapter on Machine Learning Algorithms For Medical Image Security, Hand book on Intelligent Data Security Solutions for e-Health Applications, Book Series Intelligent Data-Centric Systems, Elsevier, 2019
6. **E. Ramanujam**, "The Dark Web - Hidden Access to Internet Today", Encyclopedia of Criminal Activities and the Deep Web, IGI Global Publisher, (In Press)
7. **M. Manikandakumar**, "Smart Cataract Detector:An Image Processing-Based Mobile Application for Cataract Detection", Handbook of Computational Intelligence and Soft Computing Applications in Healthcare Management Science, IGI Global, DOI: 10.4018/978-1-7998-2581-4.ch011, Pages 246-262, 2020.

8. **M.Thangavel**, Book Chapter title: "Review on Machine and Deep Learning Applications for Cyber Security", (DOI: 10.4018/978-1-5225-9611-0.ch003), Book Title: Handbook of Research on Machine and Deep Learning Applications for Cyber Security, IGI Global, Url: <https://www.igiglobal.com/gateway/chapter/235036>
9. **Nisha Angeline**, Book chapter on " Fog Computing and Its Role in the Internet of Things" in Advancing Consumer-Centric Fog Computing Architectures, IGI Global, 2019
10. **Nisha Angeline CV, Muthuramalingam S**, Book chapter on "Lightweight Secure Architectural Framework for Internet of Things" in Countering Cyber Attacks and Preserving the Integrity and Availability of Critical Systems , IGI Global, 2019
11. **R.Parkavi**, R.Nithya, G.Priyadharshini, Book Title: Critical Concepts, Standards, and Techniques in Cyber Forensics, Book Chapter Title: Digital Terrorism Attack: Types, Effects, and Prevention, ISBN: 9781799815587, Publisher: IGI Global, 2020.
12. **R.Parkavi**, K.Divya, V.Sherry Ruth, Book Title: Critical Concepts, Standards, and Techniques in Cyber Forensics, Book Chapter Title: Digital Crime Evidence , ISBN: 9781799815587, Publisher: IGI Global, 2020.
13. **R.Parkavi**, S.Anitha, R.Gayathri, Book Title: Critical Concepts, Standards, and Techniques in Cyber Forensics, Book Chapter Title: Digital Steganography Security, ISBN: 9781799815587, Publisher: IGI Global, 2020.
14. Julius Fusic S, Anandh N, **Thangavel M**, "A Case Study on Improving Learner Engagement by Incorporating ICT Tool Usage and Active Learning Strategies in Engineering Courses" published as book chapter in book: "Methodologies and Outcomes of Engineering and Technological Pedagogy" Publisher: IGI-GLOBAL, Chapter-11, DOI- 10.4018/978-1-7998-2245-5
15. **Thiruchadai Pandeewari S., Padmavathi S.**, Hemamalini N. (2020) Engineering Full Stack IoT Systems with Distributed Processing Architecture—Software Engineering Challenges, Architectures and Tools. In: A Journey Towards Bio-inspired Techniques in Software Engineering. Intelligent Systems Reference Library, vol 185. Springer, Cham (Scopus Indexed) doi - https://doi.org/10.1007/978-3-030-40928-9_5
16. A. M. Rajeswari M. S. Karthika Devi and **C. Deisy**, "Mining of Quantitative Association Rule on Ozone Database Using Fuzzy Logic", Communications in Computer and Information Science , Springer (CCIS, volume 283), DOI: 10.1007/978-3-642-28926-2_55
17. **K.V.Uma**, Optimization of User Based Collaborative Filtering , LAMBERT Academic Publishing, ISBN-10:6200325928, October 2019