Journal Publications

1. PasumponPandian, A., "Review on Image Recoloring Methods for Efficient Naturalness by Coloring Data Modeling Methods for Low Visual Deficiency", Journal of Artificial Intelligence and Capsule Networks (JAIC), 3 (03), 169-183, 2021

2. PasumponPandian, A., "Performance Evaluation and Comparison using Deep Learning Techniques in Sentiment Analysis", Journal of Soft Computing Paradigm (JSCP), 3 (02), 123-134, 2021

3. PasumponPandian, A., "A Review on future challenges and concerns associated with an Internet of Things based automatic health monitoring system", Journal of Electrical Engineering and Automation (EEA), 3 (02), 92-109, 2021

4. PasumponPandian, A. and S Smys, "Effective Fragmentation Minimization by Cloud Enabled Back Up Storage", Journal of Ubiquitous Computing and Communication Technologies (UCCT), 2 (01), 1-9, 2020

5. PasumponPandian, A. and S Smys, "Novel Algorithm for Service Composition and QOS Enhancements in Composite Computing Services", Journal of IoT in Social, Mobile, Analytics, and Cloud (JISMAC), 2 (02), 118-128, 2020

6. PasumponPandian, A., "Recognition Aid for Visually Challenged to Make Out Indoor Environment" Journal of Artificial Intelligence and Capsule Networks (JAIC), 2 (1), 11-19, 2020

7. PasumponPandian, A., "Novel Distance Estimation based Localization Scheme for Wireless Sensor Networks using Modified Swarm Intelligence Algorithm, J. Sustain. Wireless Syst., vol. 02, no. 4, pp. 171-176, 2020, https://doi.org/10.36548/jsws.2020.4.006

8. PasumponPandian, A., "Development of Secure Cloud Based Storage Using the Elgamal Hyper Elliptic Curve Cryptography with Fuzzy Logic Based Integer Selection" Journal of Soft Computing Paradigm, 2 (1), 24-35, 2020

9. PasumponPandian, A., "Identification and classification of cancer cells using capsule network with pathological images", Journal of Artificial Intelligence and Capsule Networks, DOI: https://d oi.org/1 0.36548/jaicn.20, 19.1.005, Vol.01, No. 01, pp- 37-44. 2019.

10. PasumponPandian,A., "Enhanced edge model for big data in the internet of things based applications", Journal of Trends in Computer Science and Smart technology (TCSST) , Vol.01, No. 01, pp-57-67, 2019.

11. PasumponPandian,A., "Image inpainting technique for high quality and resolution enhanced image creation", Journal of Innovative Image Processing (JIIP), Vol.01, No. 01, pp- 39-50, 2019.

12. PasumponPandian, A., "Artificial Intelligence Application in Smart Warehousing Environment for Automated Logistics", Journal of Artificial Intelligence and Capsule Networks, Vol.01, No. 02, pp- 63-72, 2019.

13. PasumponPandian, A., "Review of Machine Learning Techniques for Voluminous Information Management" Journal of Soft Computing Paradigm (JSCP), Vol.01, No.02, pp.103-112, 2019. DOI: https://doi.org/10.36548/jscp.2019.2.005103

14. N R Ramanujam, Sofyan A. Taya, SayeedOlyaee, A.PasumponPandian, K S Joseph Wilson, and P.Mahalakshmi, "Enhanced Sensitivity of Cancer Cell Using One dimensional Nano Composite Material Coated Photonic Crystal", Springer Journal of Microsystem Technologies, Germany, pp. 1-8, (DOI: 10.1007/s00542-018-3947-6), 2018 (Impact Factor- 1.195)

15. PasumponPandian, A., Rani, P. and Indradevi, M., "A Hybrid Contourlet Transform for Deblurring and Denoising of Computer Tomography Images", Asian Journal of Information Technology, Pakistan, Vol.15 No.7, pp 1160-1165, 2016 (Impact Factor- 0.18)

16. PasumponPandian, A. and Sivanandam, S.N. "Near Lossless Image Compression (NLIC) using Simple ArithmeticOperation with Selective Scan Order", European Journal of Scientific Research, UK, Vol.68 No.4 (2012), pp. 574-583, 2012. (Impact Factor-2011: SNIP- 0.493, SJR-0.033)

17. PasumponPandian, A. and Sivanandam, S.N. "Hybrid Algorithm for Lossless Image Compression using Simple Selective Scan order with Bit Plane Slicing", International Journal of Computer Science, Science Publications, USA, Vol.8 No.8, pp 1338-1345, 2012. (Impact Factor-2011: SNIP- 1.223, SJR-0.044)

18. PasumponPandian, A., Sivanandam, S.N. and Rani, P. "Still Image Compression Standards- A Survey", Journal of Computer Science, Karpagam JCS, Vol.3, Issue 2, pp 931-941, Feb 2009.

19. PasumponPandian, A., Sivanandam, S.N. and Rani, P. "Lossy Still Image Compression Standards: JPEG and JPEG2000 – A Survey", International Journal of the Computer, the Internet and Management, Vol.17, No.2, pp 69 – 84, May -August, 2009.

Conference Publications

20. PasumponPandian, A. and Rani, P., "Performance Analysis of Multispectral Land Cover Image Classification based on SVM and Feature Descriptors", Proceedings of International Conference on Recent Explorations in Science, Engineering and Technology ICREST, 2019.

21. PasumponPandian,A. and et. al., "Hybrid Algorithm for Lossless Image Compression of Color still images", Proceedings of International Conference on Recent Explorations in Science, Engineering and Technology, 2019.

22. PasumponPandian, A. and et. al., "Smart Digital Assistant", Proceedings of International Conference on Recent Explorations in Science, Engineering and Technology, 2019.

23. PasumponPandian, A. and Senthilkumar, S., "Innovative Quality Education System Trilogy (I-QUEST) – A Prototype Version", National Conference on Innovative TQM, PSGCT, Coimbatore, 2005.

Book Published

24. Prof. R.Kandasamy, A. PasumponPandian and P.R.Vijayalakshmi, "Fundamentals of Computing", AnnaiVelu Publishers, Madurai, 2004.

Funding projects:

- Received Rs.0.50 lakhs fund for the R&D Student Project for the year 2017-2018 in "Smart Personal Assistant capable of listening to user queries and responding them intelligently through Natural Language Processing (NLP)" through The Institution of Engineers (India) R&D Grant-in-aid Scheme, Calcutta.

- Received Rs.0.50 lakhs fund for the R&D Student Project for the year 2016-2017 in "Development of Ardusat for Real Time Weather Monitoring Applications using Mobile Phones" through The Institution of Engineers (India) R&D Grant-in-aid Scheme, Calcutta.

- Got funds for setting up of Atal Tinkering Lab under ATAL Innovation Mission, NITI AAYOG @ Schools in Madurai (10 Schools, Dolphin MHSS, Milton MHSS, R.V. MHSS, GMGBHSS, Peraiyur, GHSS, P.Ammapatti, Velammal MHSS, MVMM HSS, Madurai, Ruby MHSS, Coimbatore etc.) each school got Rs.20 lakhs.

Member/ Reviewer of Professional Bodies

- Life Member of Institution of Engineers India – Member No. M-154733-4
- Life Member of Indian Society for Technical Education – Member No. 72619
- Member of IEEE & IEEE Communication Society – Member No. 92038761
- Member of International Association of Engineers (IAENG) – Member No.105637
- Member of International Association of Computer Science and Information Technology (IACSIT)- Member No. 80333194
- **Associate Editor for Elsevier Journal of Computers and Electrical Engineering, USA.**
- Editor for International Journal of Web-Based Learning and Teaching Technologies, Special issue on "IoT and Big data analytics in e-learning", Apr 2017.
- Editor-ACM/Springer Mobile Networks & Applications(MONET), Special issue on "Sustainable Mobile Networks and its applications", Sep 2017
- Guest Editor for Inderscience International Journal of Vehicle Information and Communication Systems, Special issue on "Human-Machine Interaction and Internet of Vehicles", Dec 2017.
- Guest Editor- International Journal of Advanced Intelligence Paradigms, Special issue on "Intelligent Computation Systems", Nov 2018.
- Editor for Proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI – 2018) in Springer Lecture Notes on Data Engineering and Communications Technologies, Dec 2018.
- Editor for "Intelligent Computing, Information and Control Systems (ICICCS 2019) in Springer Lecture Notes on Advances in Intelligent Systems and Computing, June 2019.
- Guest Editor for Elsevier Journal of Computers and Electrical Engineering Special section on "Soft Computing Approaches for Sustainable Systems", June 2019.
- Editor for Proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI – 2019) in Springer Lecture Notes on Data Engineering and Communications Technologies, Dec 2019.

- Editor-International Journal of Advanced Intelligence ParadigmsSpecial Issue onIntelligent Computation Systems-Part II, Vol.17, No.1/2, 2020
- Editor for "Intelligent Computing, Information and Control Systems (ICICCS 2020) in Springer Lecture Notes on Advances in Intelligent Systems and Computing, June 2020.
- Editor for Proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI – 2020) in Springer Lecture Notes on Data Engineering and Communications Technologies, Dec 2020.
- Editor for "Intelligent Computing, Information and Control Systems (ICICCS 2021) in Springer Lecture Notes on Advances in Intelligent Systems and Computing, June 2021.
- Editor for Proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI – 2021) in Springer Lecture Notes on Data Engineering and Communications Technologies, Dec 2021.
- Editor for Proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI – 2021) in Springer Lecture Notes in Social Networks Cognitive and Computational Paradigms for Future Social Networks
- Guest Editor for Elsevier Journal of Computers and Electrical Engineering Special section on "Artificial Intelligence Driven Mobile Edge Computing (VSI-aime)", May 2022
- Guest Editor for Emerald Journal of Industrial Robot with Special issues on "Soft Robotics and AI", May 2022
- Reviewer for International Journal of Robotics and Automation (ACTA Press) (IJRA-ACTA Press, Canada)
- Reviewer for IAENG International Journal of Computer Science (IAENG IJCS, China)
  Reviewer for International Journal of Computer Theory and Engineering (IJCTE), Singapore