

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI
DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE
Integrated M.Sc (Data Science - 5 Years) Programme
Publications 2023-2024

Journals

1. Parthasarathy, S., & Padmapriya, S. T. (2023). Understanding algorithm bias in artificial intelligence-enabled ERP software customization. *Journal of Ethics in Entrepreneurship and Technology* **UGC Care**.
2. Parthasarathy, S., Panigrahi, P. K., & Subramanian, G. H. (2023). A framework for managing ethics in data science projects. *Engineering Reports*, e12722 **WoS, Q2**.
3. Sharmila, P., Deisy, C., Parthasarathy, S. (2023) "Ext-icas: a novel self-normalized extractive intra cosine attention similarity summarization," *Computer Systems Science and Engineering Journal* (Impact Factor: 4.397), 45(1), 377–393 **WoS-SCI, Q2**.
4. Chandrakumar, T., & Sakthipriya, D. (2023). A Study on Usage of Agricultural Engineering Equipment for Various Crops and Yields in South Tamilnadu. *International Journal of Social Ecology and Sustainable Development (IJSESD)*, 14(1), 1-15 **Scopus, Q3**.
5. Padmapriya, S.T., Parthasarathy, S., (2023) "Ethical Data Collection for Medical Image Analysis: a Structured Approach", *Asian Bio-Ethics Review Journal*, 1-14 **WoS, Q1**.
6. B. Subbulakshmi, C. Deisy, Parthasarathy, S. (2023) "A Novel Incremental Framework for Building Classifier Using Constraint Class Association Rules", *International Journal of Information Retrieval Research*, 13(1), 1-21 **WoS, Q3**.
7. T Padmapriya, S., Chandrakumar, T., & Kalaiselvi, T. (2024). Improving the Prediction Accuracy of MRI Brain Tumor Detection and Segmentation. *International Journal of Computing and Digital Systems*, 15(1), 1-10 **Scopus, Q3**.
8. Ramprakash B, Surya Devi B, Dr. Nithyakala G, Bhumika K, Avanthika S, "Comparing Traditional Instructional Methods to ChatGPT: A Comprehensive Analysis", *Journal of Engineering Education Transformations*, Year: 2024, Volume: 37, Issue: Special Issue 2, Pages: 612-620. DOI: 10.16920/jeet/2024/v37is2/24095 **Scopus, Q4**.

9. Johnson, B., & Chandrakumar, T (2023). A Comprehensive Review of Nutrient Deficiencies in Different Growth Stages of Paddy Crop. *International Journal of Computing and Digital Systems (IJCDS)*, 14, No.1, 10111-10126 (Sep-23) **Scopus, Q3**.
10. Anitha, D., Jeyamala, C., Abirami, A. M., & Thiruvengadam, S. J. (2024). Creating teaching dynamics with In-house Faculty conclaves—a longitudinal study. *Journal of Engineering Education Transformations*, 37(Special Issue 2), p. 288-294 **Scopus, Q4**.
11. Kavitha, D., Kumar, M., Mu, S., & Anitha, D. (2024). Increasing the effectiveness of 'Power Electronics' classes using a supplementary web-based virtual laboratory setup to impart CDIO skills. *Journal of Engineering Education Transformations*, 37(Special Issue 2), p. 1-7. **Scopus, Q4**.
12. Srimathi, S., & Anitha, D. (2024). A Multi Criteria Decision Making approach to integrate Gamification in Education. *Journal of Engineering Education Transformations*, 37(Special Issue 2), p 262-270, 10.16920/jeet/2024/v37is2/24049 **Scopus, Q4**.
13. Kavitha, D., Anitha, D., & Manoharan, P. S. (2024). Project based learning and Proctored online assessment in Lab courses to enhance CDIO Skills—A case study of Microcontroller laboratory course. *Journal of Engineering Education Transformations*, 37(Special Issue 2), p. 98-104, **Scopus, Q3**.

Book Chapters

14. Sakthipriya, D., Chandrakumar, T., Hirtheek, S., Sundar, M.S., Kumar, M.S.(2023). Brain tumor analyses adopting a deep learning classifier based on glioma, meningioma, and pituitary parameters. In *Deep Learning in Medical Image Processing and Analysis (IET)*, pp. 259–271 **Scopus**.
15. Sakthipriya, D., Chandrakumar, T., Johnson, B., Kumar, J. P., & Kartheek, K. A.(2023). Analysis of preperimetric glaucoma using a deep learning classifier and CNN layer-automated perimetry. *Deep Learning in Medical Image Processing and Analysis, (IET)*, pp. 225–23 **Scopus**.
16. Saranya, R., Neeraja, U., Meena, R. S., & Chandrakumar, T.(2023). Qualitative perception of a deep learning model in connection with malaria disease classification. *Deep Learning in Medical Image Processing and Analysis, (IET) 2023*, pp. 213–223 **WoS, Scopus**.
17. T. Chandrakumar et.al (2023) "Investigation on Improving the Performance of Class-imbalanced Medical Health Datasets", Rivera Publications. **Scopus**.

18. Chandrakumar, Bennet, D. T., & Bennet, P. S. (2023), "T.Fundamentals, limitations, and the prospects of deep learning for biomedical image analysis", Deep Learning in Medical Image Processing and Analysis, (IET), Book DOI: 10.1049/PBHE059E [Scopus](#),.
19. E Ramanujam, T Chandrakumar, D Sakthipriya (2023), Investigation on Improving the Performance of Class-imbalanced Medical Health Datasets [WoS](#), [Scopus](#).
20. Kavitha D., Anitha D., Jeyamala C, Identification of Student Groups for Smart Tutoring and Collaborative Learning Based on Online Activities Using Neural Networks, Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies, 10.4018/978-1-6684-8145-5, June 2023 [Scopus](#),.

Conferences

21. Padmapriya, S. T., & Devi, M. G. (2024, March). Computer-Aided Diagnostic System for Brain Tumor Classification using Explainable AI. In 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) (Vol. 2, pp. 1-6). [IEEE](#).
22. Chandrakumar T et.al (2023), "Paddy Yield Forecasting Using Regression Techniques", 2023 2nd Edition of IEEE Delhi Section Flagship Conference (DELCON), Chitkara University, Feb 24-26, 2023 [IEEE](#).
23. Sakthipriya Dhinakaran, Chandrakumar Thangavel, Johnson B and Prem Kumar J B, "A Survey - Soil Feature Analysis Using Clustering Techniques and Predict Various Crops In Madurai District", IEEE 1st International Conference on Advanced Innovations in Smart Cities (ICAISC 2023), Jeddah Saudi Arabia, Jan 23- 25, 2023 [IEEE](#).
24. S. Betsybha Evangeline; Anitha Dhakshina Moorthy, Investigating AI Applications in Communication Tools for Individuals with Speech Impairments: An In-depth Analysis, 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) DOI: 10.1109/IATMSI60426.2024, 14-16 March 2024 [IEEE](#).