FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr.A.Thilagavathy/T0495
Designation	Associate Professor
Department	Computer Science and Engineering
Date of Joining the Institution	27-06-2007
Qualifications	B.E(CSE) M.E(CSE) Ph.D(I&C)
Total Experience	Overall : 23 years 6 months in RMK : 15 years 10 months
Papers Published in Journal	Overall : 35 After Joining RMK : 32
List of Papers Published	1. Shree Lakshmi, R. Sneha, M. Swetha, K. **Thilagavathy, A**. "AI-Powered Smart Glasses for Blind, Deaf, and Dumb", 5th IEEE International Conference on Advances in Science and Technology, ICAST 2022, 2022, pp. 280–285 2. Raju, D.N, **Thilagavathy, A**. Ekshitha, B.Naidu, G.H.Reddy, V.G, "Adaptive Multi-Variate Deep Learning Model for Music Hit Prediction: A Systematic Review ", Proceedings of the 3rd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2023, 2023, pp. 516–522 3. Deepa, R. Gayathri, S. Chitra, P.Devi, **Thilagavathy, A**., "An Enhanced Machine Learning Technique for Text Detection using Keras Sequential model", Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, ICEARS 2023, 2023, pp. 1147–1151 4. Ilampiray, P. **Thilagavathy, A**.Sahith, Bhuvanendra Chowdary, V. Dhanush, M. "An Ingenious Deep Learning Approach for Home Automation using Tensorflow Computational Framework", Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, 2023, pp. 1142–1146 5. Kumar, P. Jegan Amarnath, J. Somasundaram, **Thilagavathy, A**. "Behaviour-Constrained Support Vector Machines for FMRI Data Analysis", AIP Conference Proceedings, 2023. 6. **Thilagavathy A** (2021) ,A Surveillance System Focused On Approved Blockchains and Computation of Edges, Journal of Physics, doi:10.1088/1742-6596/ 1964/4/042058 vol.1964 7. **Thilagavathy, A**., Rishi, T., Reddy, V.D., Nimmagadda, S. "Nutritional Ingredients Analyzer for Food" Lecture Notes

<table>
<tr><td></td><td>

on Data Engineering and Communications Technologies, 2022, 86, pp. 303–312

8. **Thilagavathy, A.,** Rishi, T., Reddy, V.D., Nimmagadda, S. "IoT-Based Machine Learning System for Nutritional Ingredient Analyzer for Food", Intelligent Systems , 2022, 215, pp. 9–18

9. **Thilagavathy A** ,(2021)An Efficient Health Monitoring Method Using Fuzzy Inference System via Cloud, Indian Journal of Science and Technology, 14(25):2145–2151

10. **A.Thilagavathy**, Ravin N Krishnan, C Sidhartha Reddy, Sode Bharath Chandra (2021), A Multimodal Combined Machine Learning Approach For Fingerprint Classification,, International journal of Modern Agriculture.

11. **A.Thilagavathy**, Charumathi K, Deeksha R, Deepthee Priyaa M (2022), Automated Manure Machine, International journal of Modern Agriculture.

12. **A.Thilagavathy**,Tadavarthi Rishi, Veeram Deepak Reddy, Sudesh Nimmagadda, (2022) Nutritional Ingredients Analyzer for Food, Lect. Notes in Advances in Intelligent Systems and Computing.)

13. **Thilagavathy A**, Rishikesh S, Yuva Prasad C, Pradeep Kumar S(2020), Object Detection classifier using Faster R-CNN Algorithm, European Journal of Molecular & Clinical Medicine, vol 7 issue 4, pp.2087-2096

14. **A. Thilagavathy**, M Naresh Reddy, R Kaushik, S V S Harsha Vardhan (2020) ,Crop Prediction System using Machine Learning algorithm, Journal of Xidian University, vol 14 issue 6, pp.70-74

15. **A. Thilagavathy**, T.Ramesh, S.Selvi, P.Kavitha, (2019), Smart Precision Agriculture using LORA and WeIO Interface, International Journal of Recent Technology and Engineering , vol-8 Issue-3,pp. 3698-3701.

16. T. Ramesh , **A. Thilagavathy**, Karnam Sai Chetan, Karnam Sai Charan, Vemulapalli Sri Saideep (2019) , Efficient Technique to Detect Edge in Images with Fuzzy Rules, International Journal of Engineering and Advanced Technology , vol-9issue-2, pp.1011 – 1015

17. S.Vijayakumar , **A. Thilagavathy**, Dommaraju Digvijay, Cheekatimarla Abhishek, Bommi Reddy Maneesh Reddy (2019), An Improved Technique for Image Deblurring, International Journal of Engineering and Advanced Technology , vol-9 issue-2, pp.3231 – 3234.

18. L Raji, S.Thanga Ramya, **A.Thilagavathy**(2019), Reducing Cloud Storage Space Consumption using PRCR, International Journal of Innovative Technology and Exploring Engineering , vol-9, pp.287-289.

19. C. Geetha, **A. Thilagavathy**, Sudesh Nimmagadda, Ravilla Madhusudhan, Saivignesh Chiruvella, (2019), An Efficient Technique for Scene Text Extraction from Videos,

</td></tr>
</table>

International Journal of Engineering and Advanced Technology , vol 9 Issue-1.pp. 6510-6514.

20. **A.Thilagavathy**, P. Kavitha, Veeram Reddy Deepak Reddy, Yadla Jaswanth and Rishi Tadavarthi (2019), Future Prediction using Twitter Mood Analysis, International Journal on Emerging Technologies, vol.10 issue 3, pp. 160-165

21. Manirathnam.J , Kiran Baskar.S , Krishna Kumar.S , **A.Thilagavathy**(2018), A HYBRID COMPUTING BASED INTRUSION DETECTION MODEL, INTERNATIONAL JOURNAL OF CURRENT ENGINEERING AND SCIENTIFIC RESEARCH (IJCESR), vol.5 issue 4, pp.9-12.

22. **Thilagavathy A** , Chilambuchelvan A, (2019). "Fuzzy based edge enhanced text detection algorithm using MSER", Cluster computing. 10.1007/s10586-017-1448-5.vol.22, issue 5,September 2019

23. **Thilagavathy A** ,Chilambuchelvan A, (2016), An Improved Fuzzy Based Algorithm for Detecting Text from Images Using Stroke Width Transform, Circuits and Systems, 2016, 7, 360-370

24. S. Indirakumari, **A. Thilagavathy** (2017), A Secure Verifiable Storage Deduplication Scheme on Bigdata in Cloud, International Journal of Scientific Research in Computer Science, Engineering and Information Technology ,vol. 2 Issue 2 , pp.832-836.

25. R.Bhavadharani, P.M. Sowmya, **A.Thilagavathy** (2014), A Dynamic Approach to Extract Texts and Captions from Videos, International Journal of Computer Science and Mobile Computing, , vol.3 Issue.4, pp. 1047-1052.

26. R. Bhavadharani, **A. Thilagavathy**, (2014) A Hybrid Approach to detect a text in Digital Images , International Journal of Scientific & Engineering Research, vol 5, Issue 4,pp.239-243.

27. **A.Thilagavathy**, S. A. Mariyam Benazir, S. Monica, V.Sangeetha, A. Chilambuchelvan, (2014) , "Tamil Text detection in videos", "International Journal of Engineering and Innovative Technology", Vol 3, issue 9, pp. 168-174.

28. **A.Thilagavathy**,I.Dhivya (2013), Efficient Mechanism Of Text Identification And Retrieval, Proceedings of International Conference on Sensing, Signal Processing and Security, pp. 257-261

29. **Thilagavathy.A** , Aarthi.K, Chilambuchelvan. A (2012), "Text Detection and Extraction from videos using ANN Based Network", "International Journal on Soft Computing, Artificial Intelligence and Applications(IJSCAI)" , vol 1, pp: 19-28.

30. **Thilagavathy.A** , Aarthi.K, Chilambuchelvan. A (2012), "Text Extraction from videos using a hybrid approach", "International Conference on Advances in Computing,

	Communications and Informatics ", pp. 193 – 199 ,indexed in ACM digital library 31. **A Thilagavathy,** K Aarthi, A Chilambuchelvan (2012), "A hybrid approach to extract scene text from videos" , "International Conference on Computing, Electronics and Electrical Technologies (ICCEET), pp.1017-1022. 32. **A Thilagavathy,** K Aarthi, A Chilambuchelvan (2012), "Scene Text Extraction from Videos Using Hybrid Approach" , "Proceedings of the Second International Conference on Advances in Computing and Information Technology (ACITY) , Vol 2 , pp. 739-748.

Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 17	After Joining RMK : 17
Ph.Ds / Projects Guided	Ph.Ds Guided : nil	Student Projects Guided :50

Books Published :	Count : 03
	1. Cryptography and Network Security(ISBN: 9789395331883), RK Publications. 2. Operating System, (ISBN: 9789356255227), Scientific International Publishing House. 3. System Software, Charulatha Publication

Patents	Published Count :4	Granted Count :nil
	1. Novel Method of M-IOT based Blood Glucose sensing non-invasive technique (2019) 2. Iris based and fingerprint based voting system via IoT monitoring (2021) 3. Machine Learning based plant disease detection for Agriculture safety (2021) 4. Accessibility control with gesture detection (2022)	

Professional Memberships	Count : 6
	IEEE ISTE IAAC IACSIT IAENG SDIWC

Consultancy Projects Completed	Count : 5
Awards Received	Count : 9

	1. IEI Academic Excellence Award (2023)
	2. NPTEL Discipline Star Award (2022)
	3. Outperforming Faculty Award by Virtusa (2022)
	4. Best Scientist Award by MC Square scientific research (2021)
	5. BRONZE partner faculty under Inspire - The Campus Connect Faculty Partnership Model Award by Infosys (2019)
	6. BRONZE partner faculty under Inspire - The Campus Connect Faculty Partnership Model Award by Infosys (2018)
	7. SILVER partner faculty under Inspire - The Campus Connect Faculty Partnership Model Award by Infosys (2017)
	8. SILVER partner faculty under Inspire - The Campus Connect Faculty Partnership Model Award by Infosys (2016)
	9. BRONZE partner faculty under Inspire - The Campus Connect Faculty Partnership Model Award by Infosys (2015)
Research grants Received	-
Orchid Link / ID	ID : 0000-0002-9769-7996
Google Scholar Link / ID	ID : Yu3BAkgAAAAJ
Vidwan Link / ID	ID : 305366
Research Gate Link / ID	AAA-4439-2022
Scopus Link / ID	ID : 55270271400