

FACULTY PROFILE

Name of Teaching Staff / RMK ID		Dr.V. Balaji / T1237		
Designation		Professor		
Department		Electronics and Communication Engineering		
Date of Joining the Institution		04.06.2026		
Qualifications		B.Tech[ECE]	M.Tech[Applied Electronics]	Ph.D., [ICE]
Total Experience		Overall: 23 Years		in RMK: 2 months
Papers Published in Journal		Overall: 1		After Joining RMK: 0
List of Papers Published		1. J Eric Clapten, V Balaji (2025), “ A gated temporal attention based intra prediction framework for robust deepfake video detection” Scientific Reports, Springer Nature 15, Article Number 38540. https://doi.org/10.1038/s41598-025-22333-3- SCI-E 2. C. Jayasri, V. Balaji, C. M. Nalayini & S. Pradeep (2025), “Detecting cyber attacks in vehicle networks using improved LSTM based optimization methodology” Scientific Reports, Springer Nature, 15, 19141 (2025). https://doi.org/10.1038/s41598-025-04643-8- SCI-E 3. S Bharathiraja, S Selvamuthukumaran, V Balaji (2023), “Energy Efficient Cluster Head Selection and Routing Algorithm using Hybrid Firefly Glow-Worm Swarm Optimization in WSN” KSII Transactions on Internet and Information Systems 17(8), pp. 2140-2156. SCI-E 4. Balaji, V., Tina Susan Thomas (2022) , Space Constrained Fast Association Rule Mining with Optimal Support and Confidence Threshold Using Grammatical Evolution: An Effective Nudge in Policymaking” Iranian Journal of Information Processing and Management pp. 43-64, 10.35050/JIPM010.2022.041. 5. Valarmathy, G. ,Sekar, K., Balaji, V. , “ An Automated Framework to Segment and Classify Gliomas Using Efficient Shuffled Complex Evolution Convolutional Neural Network” Journal of Medical Imaging and Health Informatics, Volume 11, Number 11, November 2021, pp. 2765-2770(6), DOI: https://doi.org/10.1166/jmihi.2021.3868-SCI 6. Dr.V. Balaji , Dr.T.K.S.Rathish Babu, Dr. V. Anantha Krishna, Dr. A. Anitha Juliette [2020], “A Novel Approach to detect the level of Congestion in a Wireless network” Journal of Computational and Theoretical Nanoscience,		

7. V. Balaji G. Valarmathy, K. Sekar (2020), "An Automated Framework to Segment and Classify Gliomas Using Efficient Segmentation and Classification" Vol. 29 No. 10s (2020)Page No: 7539- 7547
8. Tina Susan Thomas., V Balaji (2020)," Computing Starts with Arrangement: Developing a Classification Tool Integrating The Apriori Algorithm In The Association Rule of Data Mining", Vol.29 No.10s (2020)Page No: 7255-7258
9. Balaji, V., Rathish Babu, T.K.S., Krishna, A. (2020), Software engineering techniques for block chain technology", International Journal of Recent Technology and Engineering 8(2), pp. 3672-3675
10. Balaji, V., Jayanthi, S.N., Bhuvaneswari, N., ...Mathangi, R.P., Thamizharasan, K. (2020), " Dielectric behavior of NLO active dl-methionine doped copper sulphate (MCS) crystal" Materials Today: Proceedings pp. 2361-2365
11. Balaji, V., Jayanthi, S.N., Umapathy, K., ...Lalsa, A.(2015), " Dielectric and d.C conducting properties of thiourea admixed l-histidine crystals", International Journal of Applied Engineering Research (Special Issue 58), pp. 26-30
12. Balaji, V., Umapathy, N., Duraisamy, V., Venkatesan, P., Saravanakumar, S. [2015], " Enhancing varying overhead ad hoc on demand distance vector with artificial ants", Jurnal Teknologi, 77(28), pp. 39-42
13. Balaji, V., Sekar, K., Duraisamy, V. Uma, S., Raghavendran, T.S. "Performance analysis of energy management controller for stand alone solar power generation system using soft computing techniques" Jurnal Teknologi, 76(12), pp. 111-117
14. Balaji, V., Umapathy, K., Duraisamy, V. Saravanakumar, S.S (2015), " Performance of wavelet based medical image fusion on FPGA using high level language C", Jurnal Teknologi, 76(12), pp. 105-109,
15. Balaji, V., Duraisamy, V (2014), " Ant Optimized Link Quality for Ad Hoc on Demand Distance Vector", Wireless Personal Communications 79(1), pp. 763-771-SCI-E
16. Balaji, V., Duraisamy, V., Umapathi, N. (2015), "VO 2 AODV using ACO for link optimization", European Journal of Scientific Research, 76(1), pp. 38-44
17. Balaji, V., Ramesh Babu Durai, C., Duraisamy, V. (2012), "Improved content based image retrieval using SMO and

	SVM classification technique”, European Journal of Scientific Research, 76(1), pp. 560-564 18. Balaji, V., Duraisamy, V. (2010), “ Varying overhead ad hoc on demand vector routing in highly mobile ad hoc network”, Journal of Computer Science, 7(5), pp. 678-682	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall :15	After Joining RMK :-0
Ph.Ds. / Projects Guided	Ph.Ds. Guided:2 Guiding 6	Student Projects Guided:50
Books Published:	Count:1	
Patents	Published Count :8	Granted Count :3
	Patent Published: 1. A Navigation And Information Assistive Spectacle-201741024458 A/ E- 12/476/2017/CHE 2. Smart Compact Structural Instrument-201741036984 A / E- 106/603/2017/CHE 3. An Apparatus and Method Of Artificial Intellegince Security Wearable System With Internet Of Things-201941031483 4. A Methodology To Predict The Impact Of Cachexia And Its Adverse Effects On Patients Suffering From Chronic Heart Diseases-202211067244 A 5. Deep learning based technique integrated with time series data for accurate prediction of plant Growth and yield -202211069352 A 6. Artificial intelligence-based approach for evaluating and revealing consumer insights through visual analysis of social Media images-.202241076939 A 7. Efficiency enhancement in logistics, project planning, and scheduling Through mathematical methods and operations research-202341087471 A 8. Iot Enables RSII Based Overboard Detection and Tracking System for Maritime Safety-202541059121A Patent Granted/ Copyright/ Utility Grant 1. AIBASED DEVICE FOR TRAFFIC MANAGEMENT AND NAVIGATION-6347711-UK-20-02-2024 to 19-02-2029 2. IoT Based Organic Waste Composter-455101-001- Indian Design Patent Approved 12/04/2025 3. A novel 6G Network Architecture system for Enhanced Data Security-1222314- CANADA-10th Sep 2024 4. Iot Based Electric Vehicle Energy Consumption Predicting Device-428207-001-26/08/2024	
Professional Memberships	Count :2	

	IAENG - Member Number Member in International Association of Computer Science and Information Technology (IACSIT)
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Consultancy Projects Completed	Count :NIL
Awards Received	Count :- NIL
Research grants Received	Nil
Orchid Link / ID	https://orcid.org/0000-0002-2278-0912
Google Scholar Link / ID	https://scholar.google.com/citations?user=SnIHeyEAAAAJ&hl=en&authuser=1
Vidwan Link / ID	https://vidwan.inflibnet.ac.in/profile/262798
Research Gate Link / ID	https://www.researchgate.net/profile/V-Balaji-7?ev=hdr_xprf
Scopus Link / ID	https://www.scopus.com/authid/detail.uri?authorId=56321112400