


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr.V.R.KAVITHA / T1110			
Designation	ASSOCIATE PROFESSOR (Gr II)			
Department	COMPUTER SCIENCE AND BUSINESS SYSTEMS			
Date of Joining the Institution	2.3.2023			
Qualifications		M.E	Ph.D	
Total Experience	Overall : 25 Years 6 Months		in RMK : 2 Years 11 Months	
Papers Published in Journal	Overall : 28		After Joining RMK :	
List of Papers Published	<ol style="list-style-type: none"> 1. P.Venkatesh Kumar , V.R. Kavitha , C. Nayanatara , K.C. Ramya , S. Sheeba Rani and B.Sangeetha, “Smart Energy Management for electric Vehicle “, IEEE Transactions on Consumer Electronics – Accepted (Annexure – I) 2. V.R.Kavitha, K.Nimala, A.Beno, K.C.Ramya, Seifedine Kadry, Byeong-Gwon Kang and Yunyoung Nam, “Oppositional Harris Hawks Optimization with Deep Learning-Based Image Captioning”, Computer Systems Science & Engineering, vol. 44, no. 1, pp. 579 – 593, ISSN: 0267-6192, DOI: 10.32604/csse.2023.024553, 2023. (Annexure – I) 3. V.R.Kavitha, M.Kanchana, B.Gobinathan, K.R.Sekar and Mohamed Yacin Sikkandar, "Discrete Pigeon Inspired Optimization based Vector Quantization for Data Reduction in Multimedia Applications", Intelligent Automation & Soft Computing, vol. 31, no.2. pp 853-867, Jan 2022. DOI:10.32604/iasc.2022.018358, ISSN: 1079-8587 (print), ISSN: 2326-005X (online), Impact Factor: 1.647. (Annexure – I) 4. M. Senthilkumar, V.R. Kavitha, M. Suresh Kumar, P. Anantha Christu Raj and D. Ruth Anita Shirley, “ Routing in a Wireless Sensor Network using a Hybrid Algorithm to Improve the Lifetime of the Nodes”, IOP Conference Series: Materials Science and Engineering, vol.1084, no. 1, 012051, March 2021, ISSN: 1757-8981, DOI:10.1088/1757-899X/1084/1/012051. (Scopus Indexed) 5. S.Poornima, Dr.V.R.Kavitha, “A Deep Learning Model on Emotion Recognition in TWEETS”, Turkish 			

Journal of Physiotherapy and Rehabilitation, vol. no. 3, pp 11773- 11775, June 2021, ISSN: 2651-4451| e-ISSN: 2651-446X. (**Scopus Indexed**)

6. **V.R.Kavitha**, Dr.M.Moorthi, “A quality of service load balanced Connected Dominating Set – Stochastic Diffusion Search (CDS–SDS) network backbone for MANET”, Computer Networks, vol. 151, pp: 124-131. 2019, ISSN: **1389-1286 (Annexture I)**
7. **V.R.Kavitha**, Dr.M.Moorthi, “A Quality of Service (Qos) Load Balanced Hybrid Simulated Annealing-Stochastic Diffusion Search (SA-SDS) Network Backbone for MANET”, Wireless Personal Communication, Jan 2021, DOI - 10.21203/rs.3.rs-173370/v1. **Preprint in Research Square (Annexture I)**
8. **V.R.Kavitha**, Dr.M.Moorthi, “A quality of service load balanced Stochastic diffusion search - TABU search network backbone for MANET”, International Journal of Engineering & Technology, vol 7 no. 4, PP: 313-317, 2018, **ISSN: 2227-524X, DOI: [10.14419/ijet.v7i4.16.28818](https://doi.org/10.14419/ijet.v7i4.16.28818). (Scopus Indexed)**
9. **V.R.Kavitha**, Dr.M.Moorthi, “A survey on connected dominating set construction algorithm for Mobile Adhoc Networks”, International Journal of scientific Research and Review, vol. 8 , no. 4, pp: 678-698, 2019, ISSN 2279-543X. **UGC Approved Journal No. 64650.**
10. **V.R.Kavitha**, S.R.Krithika , M.Tejaswini , N.Nihitha “An Income Tax Fraud Detection Using AI”, Journal of critical reviews, vol. 7, no. 19, pp 119-124, Sep. 2020, doi: [10.31838/jcr.07.16.16](https://doi.org/10.31838/jcr.07.16.16). ISSN: 2394-5125, **(Scopus Indexed)**
11. Divya Bharathi.R, Ellakya.S, **V.R.Kavitha**, “On Spot Accident Information and Insurance Dispute Resolution” , International Journal Of Advanced Networking & Applications (IJANA) -Special Issue 2019, pp: 205-207, eISSN : **0975 - 0282** .
12. P.Arunapriya, **V.R.Kavitha**, “Security and Privacy preservation scheme of face identification and resolution framework using FOG computing in internet of things using python”, Journal of emerging Technologies and Innovative Research, vol. 6, no. 4, pp. 370 – 374, April 2019, ISSN: 2349-5162, **UGC Approved Journal No 63975 .**
13. E. Prawin Raja, Ragavi.E , **Kavitha V R**, “Creating a

Machine Learning based Prediction for the amount of water Resources and Electrical Energy to be spent on a Hydroponics system”, Journal of Emerging Technologies and Innovative Research (JETIR), vol. 6, no. 5, pp. 542- 547, May 2019, ISSN: 2349-5162, **UGC Approved Journal No 63975.**

14. **V.R.Kavitha**, V.Bakya Lakshmi, G.Haritha, S.Durga, “C2C Platform For On Women Empowerment”, International Journal Of Creative Research Thoughts (IJCRT), vol. 6, no. 2, pp: 472- 476, 2018, **ISSN: 2320-2882. UGC Approved Journal No: 49023 (18).**
15. S Saranya, M Revathi, **V.R Kavitha**, “Construction of K-Connected Dominating Set Algorithm for Connecting the Wireless Nodes”, International Journal of Engineering Science and Computing, pp. 5542-5545, March 2017, ISSN: 0020-7225.
16. S Gayathri, **V.R Kavitha**, “Web Usage Mining Based On Request Dependency Graph”, International Research Journal of Engineering and Technology (IRJET). vol. 4, no. 4, pp 2120 – 2125, April 2017, e-ISSN: 2395 -0056,p-ISSN: 2395-0072. (**UGC Approved in 2017**)
17. R.Priyadharshini , M.Vandana , G.Yureka, **V.R.Kavitha**, “CHATBOT For Train Ticket Booking Enquiries”, International Journal of Engineering Science and Computing, vol. 8 no. 4, pp: 17045-17047, 2017, ISSN: 2321 – 3361.
18. **V.R.Kavitha**, Ravikumar R, Selava Ganapathy S.T, Thilak S, “CHATBOT Implementation Using Mobile Application”, International Journal Of Creative Research Thoughts (IJCRT), vol. 6, no.2 pp: 273-275, 2017, **ISSN: 2320-2882. UGC Approved Journal No: 49023 (18).**
19. K.Sornalatha, **V.R.Kavitha**, “Raspberry PI based Keen Museum Environment”, International Journal of Research, vol. 04, Special Issue: 6, pp: 45-49, 2017, e-ISSN: 2348 -6848, p-ISSN: 2348-795X.
20. K.Sornalatha, **V.R.Kavitha**, “A SMART MUSEUM USING INTERNET OF THINGS”, International Research Journal of Engineering and Technology (IRJET), vol. 03 no: 10, pp: 750-753, Oct 2016, e-ISSN: 2395 -0056,p-ISSN: 2395-0072.

21. V.Thilagavathi, **V.R.Kavitha** , “Privacy preserving multi keyword search through blind storage in cloud”, International Journal of Computer Science and Information Technology Research, vol. 4, no. 1, pp. 253- 260, ISSN 2348- 120X (online), 2348-1196(print), January - March 2016.
22. V.Thilagavathi, **V.R.Kavitha** , “Privacy Preserving Similarity Based Text Retrieval through Blind Storage in Cloud”, International Journal of Emerging Trends in Science and Technology, vol. 3, no. 3, pp. 3621- 3626, Mar-16, ISSN 2348-9480, DOI: <http://dx.doi.org/10.18535/ijetst/v3i03.01>
23. T.Sandhya, **V.R.Kavitha**, “Estimation of Solar Radiation with Various Climatic Parameters based on Neural Network”, International Journal of Emerging Technology in Computer Science and Electronics, 2015, ISSN: 0976 – 1353, Impact Factor 0.352.
24. T.Sandhya, **V.R.Kavitha**, “A Neural Network Based Approach to Predict Solar Radiation and Analyze the Suitability of Crops Based on Atmospheric Conditions”, International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), vol. 4, no. 5, May 2015, ISSN : 2278-1323.
25. T.Sandhya, **V.R.Kavitha**, “A Survey on Predicting Solar Radiation based on Neural Networks”, International Journal of Engineering Research and Technology, vol. 3, no. 9, September- 2014, ISSN : 2278-0181.
26. Mary Leema Rose, **V.R.Kavitha**, “A Detailed Analysis on Secured Approach to Secret Key Extraction from Wireless Signal Strength Preserving Authentication and Security”, International Journal of Emerging Research in Management and Technology, vol 3, no. 3, pp 52-56, March 2014, ISSN: 2278-9359. [Impact Factor : 1.08]
27. Reema Rose S, **V.R.kavitha**, " Sky Line Querying For Location Based Services", CiiT Journal.
28. Reema Rose S, **V.R.Kavitha** , “An Efficient Location Dependent System Based On Spatial Sky Line Queries”, International Journal of Soft Computing and Engineering (IJSCE), vol. 1, Issue-ETIC2011, pp. 27-29, ISSN : 2231-2307, January 2012.

Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 2	After Joining RMK :
Ph.Ds / Projects Guided	Ph.Ds Guided :	Student Projects Guided :60
Books Published :	Count :15	
	<p>Book Chapter</p> <p>1. Title: ‘IoT based Advanced Metering Infrastructure (AMI) for Smart Grids Book name: ‘Integration of Renewable Energy Sources with Smart Grid’</p> <p>Books Authored</p> <ol style="list-style-type: none"> 1. V.R.Kavitha, "Data warehousing and Data mining", Magnus Publication, Chennai, 2012. 2. V.R.Kavitha, “ Computer Networks”, Magnus Publication, Chennai , 2013. 3. V.R.Kavitha, "Grid Computing", Magnus Publication, Chennai, 2011. 4. V.R.Kavitha, “Grid and cloud computing” Magnus Publication, Chennai, 2016.(R2013) 5. V.R.Kavitha, "Software Engineering", Magnus Publication, Chennai, 2009.(R2007) 6. V.R.Kavitha, “ Software Engineering”, Magnus Publication, Chennai, 2018.(R2017) 7. V.R.Kavitha, “ Object Oriented Analysis and Design”, Magnus Publication, Chennai, 2016. 8. V.R.Kavitha, “ Object Oriented Analysis and Design”, Magnus Publication, Chennai, 2019. 9. V.R.Kavitha, "Component Based Technology", Magnus Publication, Chennai, 2010. 10. V.R.kavitha, "C# and .NET Framework", Magnus Publication, Chennai, 2007. 11. V.R.Kavitha, "Cloud Computing", Magnus Publication, Chennai, 2020 (R2017). 12. V.R.Kavitha, “Object Oriented Programming” Sruthi Publication, Chennai, 2019 (R2017) 13. Dr.V.R.Kavitha, “ Object Oriented Programming”, Sruthi Publication, Chennai, 2022 (R2021) 14. Dr.V.R.Kavitha, “Networks and Security”, Sruthi Publication, Chennai, 2023.(R2021) 	
Patents	Published Count :7	Granted Count :1
	<p>Australian Patent Grant</p> <p>1. Title : A BLOCK-CHAIN ENABLED SERVICE PROVIDER SYSTEM, Patent number: 2021101231, 21 April 2021.</p>	

	<p>Patent published</p> <ol style="list-style-type: none"> 1. Title : Smart Redeemers-Real Time Detection Of Mental Health, Emotions, Depression And Suicidal Ideation. Application No. 202241006380, 25-02-2022. 2. Title : Finding Hacking Fraud In Web Application Advertisements Using The Fraud detection AdSherLock Method. Application No. 202241009874, 11-03-2022. 3. Title : Real Time Human Action Monitoring Using Pose Estimation, Application No. 202241009873, 11-03-2022. 4. Title : Smart Vision App For Visually Impaired People, Application No. 202241009875, 11-03-2022. 5. Title : A Virtual Reality based personalized virtual room for improving quality of life for the bedridden patient. Application No. : 202141031084, 16.7.2021. 6. Title : A quality of service Load Balanced connected dominating set Stochastic diffusion search Network backbone for MANET. Application No. : 202041049905, 27.11.2020. 7. Title : A wearable jacket for managing social distancing using Blockchain Technology, Application No.: 202011046428, 6.11. 2020
<p>Professional Memberships</p>	<p>Count :3</p> <ol style="list-style-type: none"> 1. Member of Computer Society of India 2. Life Member of ISTE 3. Member of IEEE
<p>Consultancy Projects Completed</p>	<p>Count : 1</p>
<p>Awards Received</p>	<p>Count : 5</p> <ol style="list-style-type: none"> 1. Awarded as Best Teaching Staff in Madha Engineering College, Chennai. 2003. 2. Certified Mentor for SMART INDIA HACKATHON 2018 for the students participated in the SIH, Software Edition. 3. Certified Mentor for CSI-In App National student Project Awards 2020. 4. Received BRONZE Award for the excellence contribution in the Inspire Event of Infosys Campus Connect, organised and awarded by Infosys Pvt. Ltd for 5 years.

Research grants Received	
Orcid Link / ID	ID : https://orcid.org/0000-0003-2201-2734
Google Scholar Link / ID	ID: I2hkRlgAAAAJ
Vidwan Link / ID	ID : 359806
Research Gate Link / ID	LINK: https://www.researchgate.net/profile/Kavitha-V-R-2
Scopus Link / ID	ID : 57224706613