FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. P. UMAESWARI / T1093				
Designation	Associate Professor				
Department	Computer Science and Business Systems				
Date of Joining the Institution	08.08.2022				
Qualifications	MCA	M.Phil (CS)	ME(CS	E)	Ph.D(CSE)
Total Experience	Overall : 18.3 Years in RMK : 3 Year		RMK:3 Year		
Papers Published in Journal	Overall : 16After Joining RMK : 21SCI & Scopus - 23Others - 10		oining RMK : 21		
List of Papers Published	SCI & Scopus – 23				

7.	"Internet of Things (IoT) for Remote Earthquake and Fire
	Detection Monitoring: Linking Safety" IEEE Xplore, ISBN: 979-
	8-3503-8428-4, pp.1-5, 2024.
8.	"A Review on Biofuel Production from Fish Waste Oil" Journal
	of Environmental Nanotechnology, ISSN: 2319-5541, pp. 294-
	297, 2024.
9.	"Machine Learning-Enabled Healthcare Decision Support
	System: An Advanced Disease Prediction with Patient-Doctor
	Collaboration" IEEE Xplore, ISBN: 979-8-3503-6534-4, pp.1-6,
	2024.
10	. "Control of Autonomous Underwater Vehicles (Artificial
	Intelligence for Autonomous Vehicles: The Future of
	Driverless Technology)" Wiley, ISBN: 978-1-119-84763-2, Feb
	2024.
11	. "Leveraging Deep Autoencoders for Security in Big Data
	Framework: An Unsupervised Cloud Computing Approach"
	IEEE Xplore, Mar 2024.
12	2. "Development of Innovative Algorithm for Sound Detection
	Based on FFT and Goertzel Algorithms" IEEE Xplore, Mar 2024.
13	3. "An Improved Ant Lion Optimization Algorithm Based
	Convolutional Neural Network for Big data Classification"
	IEEE Xplore, Jan 2024.
14	I. "Multimodal Sentimental Classification using Long-Short
	Term Memory" IEEE Xplore, Feb 2024.
1!	5. "Waterwheel Plant Algorithm Optimization Based Resource
	Allocation in the Cloud Computing" IEEE Xplore, Feb 2024.
10	5."Big Data based Deep Learning for Predicting the Conditions of
	Patients from Medical IoT Data in Healthcare" Grenze
	International Journal of Engineering & Technology (GIJET), Jun
	2023.
1	7. "Development of Programmed Autonomous Electric Heavy
	Vehicle: An Application of IoT" Proceedings of the 2023 2nd
	International Conference on Electronics and Renewable
	Systems, ICEARS 2023, pp. 506–510, 2023.
18	3. Effective Security Algorithms for Big Data Clouds, Lecture
	Notes in Networks and Systems, 522, pp. 539–548, 2023.
19	9. Enhanced performance in detecting phishing website based

	on proficient component based machine learning, AIP
	Conference Proceedings 2393, 020021,
	https://doi.org/10.1063/5.0074299,2022.Local train ticketing system using web services,AIP ConferenceProceedings2393,020022,https://doi.org/10.1063/5.0074301,2022.L Classification and prediction of cancer using data mining,AIP
	Conference Proceedings, 2393, 020024, 2022.
22	2. Machine Learning Based Predicting the Assisted Living Care
	Needs, Proceedings of 5th International Conference on
	Contemporary Computing and Informatics, IC3I 2022, pp.
	2141–2146, 2022.
23	B. Security and privacy issues in cloud computing, International
	Journal of Applied Engineering Research, 9(24), pp. 27879– 27893, 2014.
•	Others – 10
	 "Maximizing Solar PV Performance with Deep Learning Optimization and Advanced Power Regulation" Journal of Information Systems Engineering and Management, ISSN: 2468-4376, 2025.
	2. "Innovative E-commerce Builder Platform for
	Democratizing Online Store Creation" Journal of Civil and
	Environmental Engineering, ISSN: 2096-6717, 2025.
2	2. A Deep Learning Cyber Security Algorithm For P2P File
	Sharing In Internet Community, Journal of Pharmaceutical
	Negative Results, Vol. 13, Issue. 10, 2022.
:	3. A Deep Learning Based Smart Agriculture Technique For An
	IOT Environment, Journal of Pharmaceutical Negative
	Results, Vol. 13, Issue. 10, 2022.
	4. Strategic management accounting practices between
	developed and emerging economies using Machine
	Learning , Journal of Pharmaceutical Negative Results, Vol. 13, Issue.9, 2022.
	5. Multilevel Security System for Big Data Cloud Using SDBS
	Algorithm, International Journal of TEST Engineering &
	Management, ISSN: 0193-4120, Vol. 83, pp. 13363-13370,
	2020

	1		
 6. Fabrication of Automatic Over Speed Control System in Educational Institution Zone Area, Tierärztliche Praxis, ISSN: 0303-6286, Vol.39, Issue 10, 2019. 7. Three Level Security System for Multiple Users in Cloud Computing" International Journal of Control Theory and Applications, ISSN: 0974-5572, Vol.10, No.12, pp.183-193, 			
 Cryptographic Security System for Institutional Data Cloud, International Journal of Control Theory and Applications, ISSN: 0974-5572, Vol.10, No. 16, pp.407-415, 2017. Achieving Secure Data Access in Cloud Computing, Middle East Journal of Scientific Research (Sensing, Signal Processing and Security), ISSN: 1990-9233, Vol.23, pp. 263- 269, 2015. 			
and SHA (Secure Hash Algo	ing OTP (One Time Password) rithm) in Big-Data and Clouds, ing, Packaging & Allied Sciences,		
ISSN: 2320-4387, Vol.4, No.1, Overall : 23	, pp. 547-559, 2016. After Joining RMK : 21		
Ph.Ds Guided : NIL	Student Projects Guided : UG – 15 Batches PG – 50 Batches		
	Educational Institution Zone 0303-6286, Vol.39, Issue 10, 7. Three Level Security System Computing" International J Applications, ISSN: 0974-55 2017. 8. Cryptographic Security System International Journal of Co ISSN: 0974-5572, Vol.10, No. 9. Achieving Secure Data Acce East Journal of Scientific Rese and Security), ISSN: 1990-923 10. Effective Authentication us and SHA (Secure Hash Algo International Journal of Print ISSN: 2320-4387, Vol.4, No.1 Overall : 23 Ph.Ds Guided : NIL Count : 5 1. Computer Network Publication (AIP), ISBN 2. Network Security in 978-93-91332-23-5, 3 3. Office Automation in 93-91332-15-0, 2021 4. Web Technology in No.978-93-90614-34 5. Visual Basic an Management System		

	Published Count : 2	Granted Count : NIL		
	List : 1. Automated Traffic Signal Management with Emergency Vehicle			
	Detection and Density-Based Control.			
Patents	Application Number: 202441080057 published on 25.10.2024.			
	2. Analytical Insights and Empirical Results Using Mobile Sensor			
	Data for Exploiting Feature Selection in Human Activity			
	Recognition.			
	Application Number: 20234106	8016 published on		
	20.10.2023.			
	3. Advances in Internet of Th	ings (IoT) Network Security		
	through Automated Device Ide	entification.		
	Application Number: 202241059311 published on			
	28.10.2022.			
	4. An investigation into how ar	tificial intelligence techniques		
	are being used in the financial	and marketing sector.		
	Application Number: 2022410	61016 published on		
	18.11.2022			
	Count : 5			
	List : 1. IEEE Membership			
	Membership number: 100685698			
	2. Life Member of Indian Academic Researchers Association,			
Professional Memberships	Membership number: 822/2022.			
	3. Life Member of Knowledge Research Academy,			
	Membership number: 1884, since May, 2022.			
	4. Member of International Association of Academic Plus			
	Corporate,			
	Membership number: FRT JQC-CE00302.			
	5. Life Member of Indian Society for Technical Education,			
	Membership number: LM 1363	317.		

Count :1		
Title of the project : Automating Data Backup and Recovery		
Systems		
Name of the Client Organization with address:		
B S K AUTOMATION Robotics & Automation Services,		
No. 2A, 2nd Street, Elango Nagar, Padi, Chennai – 600050.		
Duration : 01.08.2024 - 18.01.25		
Amount: 1,02,000		
Count :2		
Title of the project : Automation of Data Backup and Recovery		
Processes		
Name of the Client Organization with address:		
B S K AUTOMATION Robotics & Automation Services,		
No. 2A, 2nd Street, Elango Nagar, Padi, Chennai – 600050.		
Duration : 12.07.2023 - 17.12.2023		
Amount: 51,000		
Count :3		
Title of the project : Website Development and Website		
Maintenance.		
Name of the Client Organization with address: Sri Chakaravarthe		
Industries, Ambattur- 600053.		
Duration : 12.09.2022 - 16.02.2023		
Amount: 51,000		
Count :5		
List :		
1. Best Faculty Award from The Institution of Engineers (India),		
Hosur Local Center on 4 th Apr 2025.		
2. Research Excellence Award from SIDVI Foundation,		
Registered as Micro Enterprises with MSME, Government of		
India, Viskhapatnam, Andhra Pradesh on 1 st Sep 2024		
3. Inspiring Research Associate Award from Madras Journal		
Series Pvt Ltd (Registered enterprise under the Ministry of		
MSME, Government of India) Reg. No: UDYAM-TN-24-		
0019042, Chennai-602024 on Sunday 5 th Sep 2023.		
4. Best Faculty Award from Indian Academic Researchers		
Association, MSME Udyam Reg. No. UDYAM-TN-27- 0040698,		
Government of India at Mahalashmi Women's College of Arts		

	 and Science, Avadi, Chennai-600 071 on Sunday 13th Augt 2023. 5. Best Faculty Award from International School of Technology and Sciences on 5th Sep 2022.
Research grants Received	NIL
Orchid Link / ID	ID : 0000-0003-2870-6403
Google Scholar Link / ID	ID : IeQM4jQAAAAJ
Vidwan Link / ID	ID : 300460
Research Gate Link / ID	ID : GYV-4075-2022
Scopus Link / ID	ID : 57723112500