

FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. M. SHEERIN BANU T0999			
Designation	Professor and Head			
Department	Information Technology			
Date of Joining the Institution	20.06.2019			
Qualifications	B.E.	M.Tech.	Ph.D	
Total Experience	Overall : 29 Years		in RMK : 6 Years	
Papers Published in Journal	Overall : 40		After Joining RMK : 12	
List of Papers Published	• Sheerin Banu, M., N. Parveen, R. Gayathri, A. Gera, S. Kumar and G. Anitha, "A Machine Learning Approach for Enhanced Security Using Blockchain in Finance Auditing Services," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10725922. • Sheerin Banu, M., M. M, M. B. Jashva, N. Jayanthi, C. Umarani and T. H. Babu, "Advanced Signal Processing for IoT Device Communication in Smart Homes," 2025 International Conference on Automation and Computation (AUTOCOM), Dehradun, India, 2025, pp. 1537-1542, doi: 10.1109/AUTOCOM64127.2025.10957444. • Sheerin Banu, M., Madijagan, M. and Muralidharan, J.. "8 Mathematical Techniques in Multispectral Image Fusion". Medical Image Processing: Multimodal Fusion Techniques, edited by Satya Prakash Yadav, Abhishek Kumar, Ashutosh Kumar Dubey, Victor Hugo C. de Albuquerque, Adrian Rodriguez-Aguilnaga and Angeles Quezada, Berlin, Boston: De Gruyter, 2024, pp. 119-134. https://doi.org/10.1515/9783111435978-008 • M.Sheerin Banu., Predictive Diagnosis a Survey: Harnessing the Power of Convolutional Neural Networks for Disease Prognostication Through Scanned Image Analysis. In:			

	Dassan, P., Thirumaaran, S., Subramani, N. (eds) Intelligent Computing, Smart Communication and Network Technologies. ICICSCNT 2023. Communications in Computer and Information Science, vol 1970. Springer, Cham. 2024, https://doi.org/10.1007/978-3-031-75957-4_34 • M. Sheerin Banu, et al. "Patient-Centered AI Solutions for Managing Alzheimer's Disease." AI-Driven Alzheimer's Disease Detection and Prediction, edited by Umesh Kumar Lilhore, et al., IGI Global, 2024, pp. 250-263. https://doi.org/10.4018/979-8-3693-3605-2.ch017 • M. Sheerin Banu, Panneerselvam, K., Nayudu, P.P., et al. "Multi-Objective Load Balancing Based on Adaptive Osprey Optimization Algorithm", International Journal of Information Technology (2024). https://doi.org/10.1007/s41870-024-01823-z. • M. Sheerin Banu, Ashwitha, A. & Kaur, P. "Fusing Nature Inspired Fuzzy Neural Networks For Hypervisor Intrusion Detection", International Journal of Information Technology (2024). https://doi.org/10.1007/s41870-024-01846-6. • M. Sheerin Banu, V. Elanangai, U. Chakraborty, D. Sharmiladevi, R. B. P and P. Rajeswari, "Skin Cancer Disease Classification Using Tasnet V2 In Image Classification," 2024 2nd International Conference on Disruptive Technologies (ICDT), Greater Noida, India, 2024, pp. 1174-1179, doi:10.1109/ICDT61202.2024.10489262. • M. Sheerin Banu, A. S. Pandian, B. Madhavi, P. Sasikumar, V. KS and L. S. Beevi, "Blockchain Innovations in Education: Empowering Students with Smart Contracts," 2024 2nd International Conference on Disruptive Technologies (ICDT), Greater Noida, India, 2024, pp. 1168-1173, doi:10.1109/ICDT61202.2024.10489514. • M. Sheerin Banu, "Transforming Higher Education: Strategies for Fostering Innovation and Entrepreneurship in the New Millennium," 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), Chennai, India, 2023, pp. 1-7, doi: 10.1109/RMKMATE59243.2023.10369488. • M. Sheerin Banu, S. Dhivya and M. Pavithra, "Design and Development of Automation Tool for NBA Evaluators," 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), Chennai, India, 2023, pp. 1-5, doi:10.1109/RMKMATE59243.2023.10369002.
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	• M.Sheerin Banu, A. Deepika, C. Kamalesh, S. Jayakishore, P. Thirumalai and R. Arnesh, "ANI-SOUL –A Voice-Assisted System for Animal Identification and Classification," 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), Chennai, India, 2023, pp. 1-6, doi:10.1109/RMKMATE59243.2023.10369193. • M.Sheerin Banu, Amritha P, Durga J, Reddivari Sowjanya, and I. Swarna Swapna, "Development of Mobile Application for Government Schemes Management", International Journal of Modern Agriculture, Volume 10 Issue 3, 2021, ISSN: 2305-7246. • M.Sheerin Banu, Prajeshwar V, Velan K, and I. Swarna Swapna, "Application of Artificial Intelligence In Cataracts: General Overview", International Journal of Modern Agriculture, Volume 10 Issue 3, 2021, ISSN: 2305-7246. • M.Sheerin Banu, P.R.Kavitha, R.Keerthana, and Sabrish Surender, "Identification of Cancer Mutation Using Whole Genome Sequencing", Journal of Xidian University, Vol. 14, Issue 5, 2020, ISSN No:1001-2400. • M.Sheerin Banu, L. Aishwarya, H. Indhumadhi, S. Haritha, R.Yuvarani, "Campus – Chatbot for Academic Maintenance and Programmable Utility for Studies", Journal of Xidian University, Vol. 14, Issue 5, 2020, ISSN No:1001-2400. • M.Sheerin Banu and R Thilagavathy, " Development of Conversational User Interface using Dialogflow for NEET Examination and Online Medical Counseling", TEST
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	Engineering and Management, Vol. 82, 2020, ISSN: 0193-4120 ,Page No. 8889 – 8894. • M.Sheerin Banu, J Dinesh, R Keerthi Vasan and Hithesh K B, "Online Complaint Registration Management System", Suraj Punj Journal For Multidisciplinary Research, Vol. 9, Issue 3, 2019, ISSN NO: 2394-2886. • M.Sheerin Banu, R Thilagavathy, M Teena, N Akash Karthik and Yarasu Harika, "Development of Voice Conversational Interface for Career Consultant", Suraj Punj Journal For Multidisciplinary Research, Vol. 9, Issue 3, 2019, ISSN NO: 2394-2886. • M.Sheerin Banu, Shylajhaa .R .S, Swarna Swapna .I and Swathy .L, "Project Guidance Portal with Plagiarism Detection", International Journal of Engineering Science and Computing, Vol. 8, Issue 4, April 2018, ISSN 2321 3361. • M.Sheerin Banu and S.Shalini, "A Survey on Travel Based Application using Social Media", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), Vol 4, Issue 3, March 2017, ISSN 2394-2320. • M.Sheerin Banu and U.Archana, "Product Review Analysis with Filtering Vulgarly and Ranking System Based on Transaction and OTP", International Journal of Business Intelligent, Vol. 04, Issue: 02, December 2015, pp. 94- 97, ISSN: 2278-2400 • M.Sheerin Banu, M.Somasundaram, K.K. Sivagnana Prabhu, K.Chandrasekaran and Naresh Sammeta "Achieving Focused Program Outcomes through Centre of Excellence (COE) Approach", Proceedings of 2015 International Conference on Interactive Collaborative Learning (ICL), Spetember 2015. • M.Sheerin Banu and Dr. Krishnan Nallaperumal, "Content Based Image Retrieval Based on Spatial Color Distribution in Wavelet Domain", International Engineering and Technology Journal of Advanced Computations, Vol.2, No.2, 2008, pp. 64-68. • M.Sheerin Banu and Dr. Krishnan Nallaperumal, "A Survey of Methods for Color Feature Extraction in Content Based Image Retrieval", International Engineering and
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	Technology Journal of Advanced Computations, Vol.3, No.3, 2009, pp. 97-101. • M.Sheerin Banu, G.Chitra Devi and K.Nagalakshmi, "A Tool for Educating Rural Women Regarding Urban Amenities using Minimum Description Length Principle", International Journal of Computing Technology (IJCT), 2011. • M.Sheerin Banu, G.Chitra Devi and K.Nagalakshmi, "TOLMS: A Tool for Online Learning Management System using RBAC in Tamil Language", International Journal of Computing Technology (IJCT), 2011. • M.Sheerin Banu and Dr. Krishnan Nallaperumal, "Retrieval of Oral Pathology Images using Wavelet Based Color Feature Extraction Technique", International Journal of Imaging Science and Engineering (IJISE), 2011. • M.Sheerin Banu and Dr. Krishnan Nallaperumal, "A Comparative Analysis of Color Feature Extraction Techniques for Pathology Image Retrieval System", International Journal of Imaging Science and Engineering (IJISE), 2011. • M.Sheerin Banu and Dr. Krishnan Nallaperumal, "Image Retrieval Based on Spatial Color Distribution using Haar Wavelet", Sethu Journal of Science and Technology, Vol.4, 2008, pp. 1-5. • M.Sheerin Banu, "An Overview of Color and Shape Feature Extraction Methods in Content Based Image Retrieval", Sethu Journal of Science and Technology, Vol.5, 2010, pp. 49-63. • M.Sheerin Banu, and K.Nagalakshmi, "An Interactive Tool for On-Line Education System Through Tamil Language for Rural Mass using Role Based Access Control", Sethu Journal of Science and Technology, Vol.5, 2010, pp. 10-15. • M.Sheerin Banu, and Dr. Krishnan Nallaperumal, "An Improved Image Retrieval System Based on Combined Color and Shape Invariant Features", Proceedings of 2011 IEEE International Conference on Computational Intelligence and Computing Research (ICIC 2011), IEEE Press. • M.Sheerin Banu, and Dr. Krishnan Nallaperumal, "A
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	Novel Color Feature Extraction Technique for Retrieval of Oral Pathology Images”, Proceedings of 2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC 2010), IEEE Press. • M.Sheerin Banu, and Dr. Krishnan Nallaperumal, “Analysis of Color Feature Extraction Techniques for Pathology Image Retrieval System”, Proceedings of 2010 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC 2010), IEEE Press. • M.Sheerin Banu and C.Callins Christiyana , “Shape Based Image Retrieval Using Cellular Automata and Fourier Descriptors”, Proceedings of IEEE International Conference (IACC '09), IEEE Press, 2009. • M.Sheerin Banu, C.Callins Christiyana and Dr. Krishnan Nallaperumal, “Content Based Image Indexing and Retrieval using Color Descriptor in Wavelet Domain”, Proceedings of International Conference on Computational Intelligence and Multimedia Applications (ICCIMA '07), IEEE Press, 2007, pp. 185-189. • M.Sheerin Banu, C.Callins Christiyana and Dr. Krishnan Nallaperumal, “Content Based Image Retrieval using Dominant Color Identification Based on Foreground Objects”, Proceedings of International Conference on Computational Intelligence and Multimedia Applications (ICCIMA '07), IEEE Press, 2007, pp. 190-194. • M.Sheerin Banu and R.Sukumar, “Implementing E-Learning Solutions: A Case Study Approach”, International Conference on E-Learning, 2005. • M.Sheerin Banu, “A Comparative Study of Invariant Moments and Radial Chebyshev Moments”, Proceedings of AICTE Sponsored Second National Conference on Hi-Tech Trends in Emerging Computational Technologies (SITCON 2008), pp. 171-176.	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 16	After Joining RMK : 8
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 50
Books Published :	Count : 8	

	List : • Problem Solving – Python Programming • Computer Programming • Visual Programming • Programming with C • Fundamentals of Computing and Programming • Computer Practice Laboratory – I • Computer Practice Laboratory – II • Proceedings of International Conference on Advanced Computing and Communication - ICACC 2007	
Patents	Published Count : 3	Granted Count :NII
	List : 1. Automatic and Manual Cleaning Bot using Android Application 2. IoT Based Covid-19 Patient Monitoring System 3. Third Eye for Blind	
Professional Memberships	Count : 4	
	List : • IEEE Membership • Lifetime Member of the Indian Society for Technical Education (ISTE) • Member of the Institution of Engineers (India) • Licensed Professor of Qlik Academic Program	
Consultancy Projects Completed	Count : 3	
Awards Received	Count :1	
	List : IET Best Faculty Award	
Research grants Received	Nil	
Orchid Link / ID	ID : 0000-0001-9067-2385	
Google Scholar Link / ID	ID : WD07_vMAAAAJ	
Vidwan Link / ID	ID : https://vidwan.inflibnet.ac.in/profile/302652	
Research Gate Link / ID	ID : AAE-6801-2019	
Scopus Link / ID	ID : 23986078000	