


## FACULTY PROFILE

Name of Teaching Staff / RMK ID	Mr.K.Sivachandar/T1148			
Designation	Assistant Professor			
Department	Electronics and Communication Engineering			
Date of Joining the Institution	1.07.2024			
Qualifications	B.E.(ECE)	M.E.(EST)	(Ph.D)	
Total Experience	Overall: 12 Years 8 Months		in RMK: 1 month	
Papers Published in Journal	Overall: 29		After Joining RMK: 1	
List of Papers Published	<p>Sivachandar K, TB Vijayan, S John. "Performance Analysis of the Ensemble Model in Anaemia Detection from Unmodified Smartphone-Captured Conjunctiva Images." IETE Journal of Research, 1-12, 2024.</p> <p>K Sivachandar, VT Bai. "Artificial Intelligence-based Non-Invasive Pre-Diagnostic Screening Test for Anaemia using Conjunctiva Digital Images." Knowledge Transactions on Applied Machine Learning 2 (03), 12-21, 2024.</p> <p>R Purushothaman, NG Praveena, K Sivachandar. "Tiny ML-Based Non-Invasive Approach of Cardiac Monitoring." 2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), 2024.</p> <p>Sivachandar K, TB Vijayan. "Examining Different Cost Ratio Frameworks for Decision Rule Machine Learning Algorithms in Diagnostic Application." Technology and Health Care, 1-21, 2024.</p> <p>S Karuppiah, K Sivachandar, B Thyla, D Dhivya. "Conceptualization of a Cardiac Monitoring System via Bluetooth Communication Protocol to Mobile Devices." 2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), 2024.</p> <p>Sivachandar K, TB Vijayan. "Investigating the Optimal K Value in K-Nearest Neighbors and Cost Matrix Analysis for the Global Air Quality Dataset." Knowledge Transactions on Applied Machine Learning 1 (05), 2023.</p> <p>P NG, S Prathima, Sivachandar K, S S Nath. "Generic Paddy Plant Disease Detector (GP2D2): An Application of the Deep-CNN Model." International Journal of Electrical and Computer Engineering Systems 14 (6), 2023.</p>			

N Shylashree, MS Amulya, GR Disha, N Praveena, VK Verma, Sivachandar K, "A Novel Design of Low Power & High Speed FinFET Based Binary and Ternary SRAM and 4\* 4 SRAM Array." IETE Journal of Research, 1-16, 2023.

R Nanmaran, V Velmurugan, Sivachandar K, Babushanmugham, S Srimathi. "Design and Development of an Improved Multimodal Biometric Authentication System using Machine Learning Classifiers." SSRG International Journal of Electrical and Electronics Engineering 10 (5), 2023.

K Sivachandar, G Gulothungan. "On Predictability of Performance at Outcome Based Education focusing on Course Outcomes." Knowledge Transactions on Applied Machine Learning 1 (02), 2023.

P Samuda, K Sivachandar, NG Praveena, C Nithiya, D Kamalesh, ... "Low-Cost Prototype for IoT-Based Smart Monitoring through Telegram." 2023 5th International Conference on Smart Systems and Inventive Technology, 2023.

JGS Sivachandar K, V. Amudha, B. Ramesh, Jose Anand, M. ShanmugaSundari. "MIMO-IDMA System Performance for SUI and LTE Frequency Selective Channels." Advances in Parallel Computing Algorithms, Tools and Paradigms, 2022.

M Babu, GAS Kumar, K Sivachandar, K Kannan, J Gurumurthy, ... "FPGA Implementation of a Modified SMS4-BSK Cipher With Novel Efficient XOR Gate Design." 2022 7th International Conference on Communication and Electronics Systems, 2022.

Sivachandar K, TB Vijayan, S John. "Ridge Regression Algorithm Based Non-Invasive Anaemia Screening using Conjunctiva Images." Journal of Ambient Intelligence and Humanized Computing, 1-11, 2020.

K Sivachandar, V Thulasi Bai, N Gangatharan. "Power Prediction and Suboptimal Performance Identification of Solar Panels Using Machine Learning." Journal of Green Engineering, 10(9), 6455–6467, 2020.

Sivachandar K, T Bai Vijayan, L Simone, G Dimauro. "Semantic Segmentation of Conjunctiva Region for Non-Invasive Anemia Detection Applications." Electronics 9 (8), 1309, 2020.

RK Ramesh Pusuluri, Reena Aggarwal, Sivachandar K. "Pro-Active Routing Protocols in MANETs: A Comparative Study with Hybrid Routing Protocols." International Journal of Grid and Distributed Computing 11 (11), 29-38, 2018.

T Vijayan, K Sivachandar, Abinethri. "Minimization of Crosstalk in VLSI Circuits using System Design for Encoding & Decoding." International Journal of Pure and Applied Mathematics 119 (12), 4037-4048, 2018.

R Pusuluri, R Aggarwal, Sivachandar K. "Simulation Study of Feedback Based Adaptive TCP Protocol for Improving the Performance of TCP and High Speed Data Transmission Based on Congestion Window Size." International Journal of Grid and Distributed Computing 11 (1), 1-11, 2018.

	<p>J Nathimugil, K Sivachandar. "Implementation of High-Speed Modular Multiplier Using Optimized Hybrid Multiplication." International Journal of Emerging Technology in Computer Science, 2016.</p> <p>G Sivaprakash, K Sivachandar. "Performance Evaluation of Simple Adaptive Relaying Protocol for Wireless Relaying Network." International Journal of Emerging Technology in Computer Science, 2015.</p> <p>T Vijayan, Sivachandar K. "An Efficient DCT Computational Algorithm Suitable for VLSI Implementation." International Journal of Advanced Research in Electrical, Electronics and, 2015.</p> <p>J Anand, K Sivachandar. "Vampire Attack Detection in Wireless Sensor Network." International Journal of Engineering Science and Innovative Technology, 2014.</p> <p>ML Alex, K Sivachandar. "3D Deformable Modeling of Pleural Effusion Segmentation on CT Images." Asian Journal of Computer Science and Technology (AJCST) 2 (1), 13-17, 2014.</p> <p>T Vijayan, NA Kumar, K Sivachandar. "An Improved Low-Resolution Face Tracker System Using Gradient Logarithm Field Feature Space and Bi-Cubic Interpolation." 2013 International Conference on Human Computer Interactions (ICHCI), 1-7, 2013.</p> <p>J Anand, K Sivachandar, MM Yaseen. "Contour-Based Target Detection in Real-Time Videos." International Journal of Computer Trends and Technology 4 (8), 2615-2618, 2013.</p> <p>J Anand, K Sivachandar. "An Edge Vector and Edge Map Based Boundary Detection in Medical Images." International Journal of Innovative Research in Computer and Communication Engineering, 2013.</p> <p>J Anand, K Sivachandar. "Diverse Sorting Algorithm Analysis for ACSFD in Wireless Sensor Networks." International Journal of Engineering and Advanced Technology 2 (3), 57-59, 2013.</p> <p>J Anand, K Sivachandar. "Performance Analysis of ACO-Based IP Traceback." International Journal of Computer Applications 59 (1), 2012.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall :12	After Joining RMK :-
Ph.Ds. / Projects Guided	Ph.Ds. Guided:Nil	Student Projects Guided: 16
Books Published:	Count: Nil	
Patents	Published Count :42	Granted Count :1

	<p>Dr.N.Gangatharan, Dr.N.G.Praveena, Ms.Samuda Prathima ,Mr.K.Sivachandar, AUTOMATED POWER BANK SYSTEM WITH WIRELESS CHARGING USING IOT, Filed 16-05-2023,Published 16-06-2023.</p> <p>Dr.N.Gangatharan, Dr.N.G.Praveena, Samuda Prathima, K. Sivachandar, C.Nithiya, B.J.Komathi, BLIND SPOT DETECTION AND ACCIDENT PREVENTION SYSTEM Filed 25-11-2022,Published 02-12-2022.</p> <p>1.R.M.K. College Of Engineering And Technology 2. Dr N G Praveena 3.Dr N Gangatharan 4.Mr K.Sivachandar 5.Ms Samuda Prathima, SENSOR BASED AUTOMATIC WHEEL CHAIR Patent No. 398424-001 Granted Filed 25-10-2023.</p>
Professional Memberships	Count :2
	<p>Member of the Indian Society for Technical Education- Membership ID: LM 134002 (2002)</p> <p>Member of International Association of Engineers -Membership ID: 373382(2024)</p>

Consultancy Projects Completed	Count :2
Awards Received	Count :- 2
	<p>NPTEL MOTIVATED LEARNERS NPTEL-IIT MADRAS</p> <p>NPTEL -DISCIPLINE STAR NPTEL-IIT MADRAS</p>
Research grants Received	Nil
Orchid Link / ID	<a href="https://orcid.org/0000-0001-8962-7392">https://orcid.org/0000-0001-8962-7392</a>

Google Scholar Link / ID	<a href="https://scholar.google.com/citations?hl=en&amp;user=Op5nxMwAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=Op5nxMwAAAAJ</a>
Vidwan Link / ID	<a href="https://vidwan.inflibnet.ac.in/profile/301728">https://vidwan.inflibnet.ac.in/profile/301728</a>
Research Gate Link / ID	<a href="https://www.researchgate.net/profile/K-Sivachandar">https://www.researchgate.net/profile/K-Sivachandar</a>
Scopus Link / ID	<a href="https://www.scopus.com/authid/detail.uri?authorId=56358053800">https://www.scopus.com/authid/detail.uri?authorId=56358053800</a>