FACULTY PROFILE

Name of Teaching Staff / RMK ID	T.SURESH / T0036	
Designation	Professor & Head	
Department	Electronics and Communication Engineering	
Date of Joining the Institution	18-02-1998	
Qualifications	B.E (ECE) M.E(Microwave & Optical Engg.) PhD (VLSI)	
Total Experience	Overall : 30 years 3 months	in RMK : 25 years 3 months
Papers Published in Journal	Overall : 30	After Joining RMK : 30

List of Papers Published

1. **T Suresh**, J Henry, P Rangarajan, "A Survey On Reconfigurable Architectures For Future Wireless Networks", Computer And Network Technology, Proceedings of the International Conference on ICCNT 2009, Chennai, India, 24 – 26 July 2009, pp.204-208

2. **T Suresh**, J Henry, P Rangarajan, "Multi-agent based reconfigurable architecture for future wireless networks", 2009 International Conference on Intelligent Agent & Multi-Agent Systems, 1-5

3. **Suresh, T.** and Shunmuganathan, K. L. "An Efficient OFDM Transceiver Design suitable to IEEE 802.11a WLAN standard", **International Journal of Computer Science and Information Security** (IJCSIS), Vol. 8, No. 2, pp. 118-122, 2010.

4. Sathiyaseelan, P., **Suresh,T**. "An Efficient Implementation of OFDM Transceiver on FPGA Platform" Proceedings of the International Conference on Future Engineering Trends(ICFET 2K10), April 2010, Chennai

5. **Suresh, T.** and Shunmuganathan, K. L. "A Novel Design of Reconfigurable Architecture for Multistandard Communication System" in Proc. International Conference on Advances in Information Technology and Mobile

Communication (AIM 2011), Lecture Notes in Computer Science-CCIS, Springer, 2011.

6. **Suresh, T**. and Shunmuganathan, K. L. "Efficient Resource Sharing Architecture for Multistandard Communication system", **VLSI Design**, Hindawi Publishing Corporation, DoI:10.1155/2011/328640, 2011.

7. Prakash, p., **Suresh,T**. , "Design of Reconfigurable Multiplier", Proceedings of the Fourth National Conference on ITPED-11, March 2011, Chennai

8. Gowrikishore, T., **Suresh,T**. "A novel Design of Reconfigurable Parallel Processor", Proceedings of the Fourth National Conference on ITPED-11, March 2011, Chennai

9. Divya, B., **Suresh,T**. "Efficient Mapping of Pipeline FFT on Reconfigurable Architecture", Proceedings of the Fourth National Conference on ITPED-11, March 2011, Chennai

10. Renuka, s., **Suresh,T**. "Implementation of WCDMA RAKE Receiver in Reconfigurable Architecture", Proc. of National Conference on VLSI Design & Image Processing NCVLSI 11, Chennai

11. R.P.Ashwini, **Suresh, T**. "A Reconfigurable Architecture For Scalable Fft Processing", National Conference On Innovative Technologies In Electrical and Electronics Engineering (Nciteee"12), 06 March 2012, Chennai

12. K.Jayachitra, **Suresh, T.** "Novel Design Of Power Efficient Reconfigurable Multiply-Accumulate Co-Processor", National Conference On Innovative Technologies In Electrical And Electronics Engineering (Nciteee"12), 06 March 2012, Chennai.

13. Aarthi K.J Veronica**, Dr.T.Suresh. '**MEMS Gyroscope Based Motion Sickness Estimation System using Car Travelling in 3D Space", **IJREAT International Journal of Research in Engineering & Advanced Technology**, Volume 1, Issue 1, March, 2013 ISSN: 2320 – 8791

14. Aarthi K.J Veronica**, Dr.T.Suresh. '**MEMS Gyroscope Based Motion Sickness Estimation System", in Proceedings of International Conference in Magna on Emerging Engineering Trends, Chennai, Volume III, pp.

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15. Aarthi K.J Veronica, **Dr.T.Suresh. "**MEMS Gyroscope Based Motion Sickness Estimation System using Car Travelling in 3D Space", National Conference on Recent Trends in Engineering And Technology, Agni College of Technology, March 2013

16. P.Lavakumar, **Dr.T.Suresh**. "Reuse of Trace Cache to increase the Energy Efficiency of Instruction Delivery" in Proceedings of National Conference on VLSI & Image Processing (NCVLSI "13), 19 March 2013, Chennai, pages:322-325.

17. R.Durga, **Dr.T.Suresh**. "Bio Medical Sensor Network For Patient Monitoring" in Proceedings of Humming Bird International Conference on Multidisciplinary (CSI Foundation of Computer science Delivering Research) , Nagercoil, Volume: 7, Pages:61-66 (2014).

18. R.Durga, **Dr.T.Suresh**. "Bio Medical Sensor Network For Patient Monitoring" **International Journal of Engineering Research and Applications (IJERA)**, ISSN: 2248-9622, Pages:25-29 (2014).

19. P.Aswin, **Dr.T.Suresh**. "Design and Implementation of Braille Messenger" in the Proceedings of National Conference on Innovative Techniques in Power Engineering & Drives, Page:34 (2014)

20. S.Arishkumar, **Dr.T.Suresh**. "Design of Versatile Mobile Security Robot" in the proceedings of International Conference on Futuristic Trends in Electronics Engineering,Pages:239-242(2014)

21. R.Dinesh, **Dr.T.Suresh**. "Area Efficient Reconfigurable Multiplier for DSP applications", in the proceedings of National Conference on Modern Electronics & Signal Processing NCMESP"15 (2015)

22. A.Gratus Iruthaya Kisho, **Dr.T.Suresh**. "Low Power Reconfigurable Architecture for Wireless Sensor nodes", in the proceedings of National Conference on Recent Research and Advanced Computing NCRRAC (2015)

23. Nithya, **Dr.T.Suresh**. "Efficient Fault Tolerant Approach for SRAM based FPGAs", in the proceedings of

International Conference on Innovative & Emerging Trends in Engineering and Technology ICIETET , Chennai (07 May 2016)

24. Selvapriya, **Dr.T.Suresh**. "Design and Implementation of Data Streaming using Blow Fish Algorithm", in the proceedings of 3rd International Conference on Engineering Technology and Science ICETS, Rasipuram (18 and 19 March 2016)

25. Sangeetha, **Dr.T.Suresh**. "High performance of Aging Aware Reliable Multiplier with Adaptive Hold Logic", in the proceedings of 3rd International Conference on Current Trends in Engineering and Technology ICCTET, Coimbatore (06 April 2016)

26. **Dr.Suresh, T**, Brijet, Z. "Reconfigurable Processing Element Array Architectures for an Area Efficient Multiplier Architecture", **Asian Journal of Information Technology**, 15(5), 900-907, 2016.

27. **Dr.Suresh, T**, "FPGA Implementation of Neuro-Fuzzy system with Improved PSO Learning", in Proceedings of 4th International Conference on Green Technologies for power generation, Communication & Instrumentation (FCGPC "17), 03rd and 04th April 2017, Chennai.

28. **Dr.Suresh, T**., Diwakar, V., HemKumar Rao, R. "Implementation of Smart Driving Pattern Analysis and Monitoring system in LSV type vehicles using cloud computing", in Proceedings National Technical Seminar on Future Technologies for Combat Vehicles (FTC

    2017), 24-25 March 2017, CVRDE, Chenni-54.

29. **Dr.Suresh. T**., Brijet.Z., "Optimized fault tolerant core-based ASIC design for SRAM", **International Journal of Manufacturing Technology and Management**, Inderscience Enterprises Ltd., Vol.35, No.6, pp:485-493,March 2022 **DOI:** 10.1504/IJMTM.2017.10011241

30. **Dr.T.Suresh,** P. Gunasekhar, Z. Brijet, Jasti Tejas., "Glove Sensor with AI system for Deaf and Blind People to Ease of Communication", **International Journal of Innovative Technology and Exploring Engineering (IJITEE)** ISSN: 2278-3075, Volume-9 Issue-1S, November 2019 DOI:10.35940/ijitee.A1077.1191S19

31. R. Babuji, **Dr.T. Suresh**, P. Gunasekhar, Lukas Krishnan C M, "Smart Classroom – A Stepping Stone in Making Digital India", **International Journal of Recent Technology and Engineering (IJRTE)** ISSN: 2277-3878, Volume-8 Issue-4, November 2019

32. K. Naresh Kumar Thapa, T.Joel, Dr. S. Sankara Gomathi, **Dr. T.Suresh**, S.S Raghavendran, "Optical Tracking Method based on Clustering Technique under Ocean Water Cleaning System", **Test Engineering & Management**, ISSN: 0193-4120 Page No. 8853 – 8858, January-February 2020

33. K. Sai Srinivas , R. Raman Kumar , Dr.M.Somasundaram , K. Praneeta Deepthi , **Dr.T. Suresh**, "AI Based Crowd Monitoring System Using Drones for Identifying Anti Socialites", **International Journal of Advanced Science and Technology**, Volume 29, Isue 5, (2020), pp. 5875 - 5879,
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34. **Dr.T.Suresh**, R.Babuji, "Sustainable Development in Theft Management System using Artificial Neural Networks based on Decision Tree and Random Forest Classifiers", **Journal of Green Engineering (JGE)**,Volume-10, Issue-9, September 2020.

35. **Dr.T.Suresh**, T.D.Subha, Surendra Kumar.C, "A Study of Novel Technique-Solar Powered Bicycle", Elsevier **Materials Today Proceedings**, (2020), https://doi.org/10.1016/j.matpr.2020.09.827

36. K.S.Swetha, A.Swetha Reddy, S.Vishnupriya, T.D.Subha, **Dr.T.Suresh**,"A Study of Monitoring Roadmaps using Microprocessors", **Elsevier Materials Today Proceedings**. (2020), https://doi.org/10.1016/j.matpr.2020.09.815

37. T.D.Subha, **Dr.T.Suresh**,T.D.Subash, A. SwethaReddy, "Review on some mankind of new process of restructuring the automotive process" **Elsevier Materials Today Proceedings**,(2020) https://doi.org/10.1016/j.matpr.2020.09.821

38. **Dr.T. Suresh** , T.D. Subha , K.S. Swetha , A. Swetha Reddy, "Using DSP-based effective wireless ethernet accumulation of networks", **Elsevier Materials Today**

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39. A.Swetha Reddy, T.D.Subha, **T.Suresh**, T.D.Subash, "A DTM Research based on the strategic process", **Elsevier Materials Today Proceedings**,(2020), https://doi.org/10.1016/j.matpr.2020.09.811

40. T.D.Subha, , T.D.Subash, **T.Suresh**, "The importance for nanostructures in N-I-P ambiguously defined Si periodic concentrated solar devices", **Elsevier Materials Today Proceedings**,(2020), https://doi.org/10.1016/j.matpr.2020.09.813

41. Darwin Nesakumar A, **T Suresh**, Nivedha T, K Nivedha S, Priyadharshini G, P Mugilan, " Smart ATM Security Using Face Recognition", **European Journal of Molecular & Clinical Medicine** ISSN 2515-8260 Volume 7, Issue 4, 2020

42. Darwin Nesakumar A, **T Suresh**, M Aarthi, K Gomathi, G Aarthi, P Mugilan, " Accident Detection, Alert and Tracking System Based on IoT", **European Journal of Molecular & Clinical Medicine** ISSN 2515-8260 Volume 7, Issue 4, 2020

43. V.Ramkumar1, S. Mahaboob Basha, **T. Suresh**, A. Iyswariya, K. Jeevitha, V.Praveen kumar, "Aperture Coupled Technique Using Triangular Shape Patch Antenna for Integration into Different Wearable Textile Substrates", **European Journal of Molecular & Clinical Medicine** ISSN 2515-8260 Volume 7, Issue 4, 2020

44. Sneha Joseph, Paul A Thaikattil, **T. Suresh**, Seethalakshmi. E, "Automated System for Lavatory Disinfection", **IOP Conf. Series: Materials Science and Engineering** 1012 (2021) 012049, IOP Publishing, doi:10.1088/1757-899X/1012/1/012049

45. S.P. Vijaya Vardan Reddy, **T. Suresh**, K. Naresh Kumar Thapa, V. Ramkumar, S. Mahabhoob Basha, Deepika.Y, " Plant Disease Identifer Using K-Means and GLSM in Convolution Neural Network", **European Journal of Molecular & Clinical Medicine** ISSN 2515-8260 Volume 7, Issue 4, 2020

46. Ms. Meenakshi Shunmugam, **Dr.T.Suresh** , Dr.M.S.Anbarasi and Mr.Manjunath Jayaprakash , "An Enhanced Optimal Technique For Accurate Detection Of Color Face Images With Different Illuminations", **Turkish**

	Journal of Computer and Mathematics Education, Vol.12 No.1 (2021), 221-243
	47. Blessy Y M ,Prabhu V S**, Dr.T.Suresh**, Sneha joseph, " Compact Uwb Antenna For Various ISM Band Application", **PENSEE**, Volume 50, Issue 11, ISSN NO: 0031-4773, 2020
	48. K. Sai Srinivas, R. Raman Kumar, Tejesh Sudheer, M. Somasundaram, **T. Suresh**, "Industrial Robotic Arm Design enabled by AI-based Deep Reinforcement Learning using a combination of Deep Deterministic Policy Gradient (DDPG) and Hindsight Experience Replay (HER)", **Turkish Online Journal of Qualitative Inquiry (TOJQI)** ,Volume -12, Issue-7, pages: 3304-3313
	49. Kalli, Siva Nagi Reddy , Suresh, T. , Prasanth, A. , Muthumanickam, T. Mohanram, K. , "An effective motion object detection using adaptive background modeling mechanism in video surveillance system", **Journal of Intelligent & Fuzzy Systems**, vol. 41, no. 1, pp. 1777-1789, 2021
	50. T Suresh, Z.Brijet, T.Blesslin Sheeeba, "CMVHHO-DKMLC: A Chaotic Multi Verse Harris Hawks optimization (CMV-HHO) algorithm based deep kernel optimized machine learning classifier for medical diagnosis", **Biomedical Signal Processing and Control**,70(2021) 103034, pages:1-14
	51.T.Suresh,T.D.Subha,N.Pavithra, M.B.Jaya Soundariya, P.Priyadarshini, B.Jagadeeswari, "An exploration of the implications of Nd:YAG photon texturing on the layers of semiconductor materials", **Elsevier Materials Today Proceedings**,(2021), https://doi.org/10.1016/j.matpr.2021.07.323
	52. T.Suresh, Z.Brijet, T.D.Subha, "Modified local binary patterns based feature extraction and hyper parameters tuned attention segmental recurrent neural network classifier using flamingo search optimization algorithm for disease diagnosis model", **Concurrency Computation Practice and Experience,** Wiley, June 2022, pages :1-21
	53. T Suresh, Z Brijet, TD Subha, "Imbalanced medical disease dataset classification using enhanced generative adversarial

	network",**Computer Methods in Biomechanics and Biomedical Engineering**, 1- 17, (2022), https://doi.org/10.1080/10255842.2022.2134729 54. T.Suresh, Z.Brijet, "Optimization Assisted Convolutional Neural Network for Detection of Thyroid", **Concurrency Computation Practice and Experience**, Wiley, Vol.34, Issue-25, August 2022, https://doi.org/10.1002/cpe.7268	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 2	After Joining RMK : 2
Ph.Ds / Projects Guided	Ph.Ds Guided :	Student Projects Guided : 52
Books Published :	Count :	
	List :	
Patents	Published Count : 7	Granted Count :
	List : 1. Dr.Elwin Chandra Monie, Dr.T.Suresh, An Assistive Device for Speech Impaired Persons to Communicate Better , Date of Filing : 18/09/2022, Date of Publication : : 23/09/2022, Application No.202241053326 A 2. T Suresh , N.M.Jothi Swaroopan, Interactive voice enabled outdoor navigation system for visually impaired people, Filed :201841049953 31/12/2018, published: 03/07/2020 3. T. Suresh , V. Diwakar, R. Hem Kumar Rao , ShabareNaraye n, An IoT Enable Safety Door lock system, Filed: 201841049961 31/12/2018, published: 03/07/2020 4. Ms.M. Aswini, Dr.T.Suresh, Hybrid Communication For Interaction Between, Filed : 202041045391 ,19/10/2020, Published: 22/04/2022 5. Pari Yogeshwaran. S, Mughilan. V ,Rahul. R, Dr. B.Sarala, Dr. T. Suresh, Boundary Attentive System For Angler, filed: 202141058738 16/12/2021, Published & Exam Fee paid 04/02/2022 6. Mr.Logeshwaran ,J. Joselin Jeya Sheela ,Dr.T.Suresh ,Dr.B.Saral, IOT BASED REAL-TIME WINE ANALYSING SYSTEM FOR HOME BREWERS, filed: 202241019803 31/03/2022, Published & Exam Fee paid 13/05/2022 7. Mr. Rahul. R, Mr Pari Yogeshwaran. S ,Ms.Joselin Jeyasheela, Dr.	

	B.Sarala ,Dr.T.Suresh , Dr.Jasmine Hephzipah, PUFFER BAG For BRIDGE ACCIDENT,filed: 202241019805 31/03/2022, Published & Exam Fee paid 13/05/2022
Professional Memberships	Count : 6
	List : IEEE, ISTE, ACEEE, IACSIT, FIETE, FIEI
Consultancy Projects Completed	Count : 1
Awards Received	Count : 6
	1. In recognition of meritorious service and achievements in academics, awarded **Best Teaching Faculty Award** and **Best Faculty Project Award** by **Dr. Kalam Educational Trust** for Tribal, 2017 2. The Institution of Engineers India(IEI-Hosur Local Centre) Best Faculty Advisor Award-2022 3. Service Excellence Award by Alumni of R.M.K Engineering College – 2016 4. National Education Excellence Achievers Award 2022 by Navbharat Rashtriya Gyanpeeth 5. Certificate of Appreciation for mentoring NPTEL Course on IMAD 6. Appreciation award for fostering an echo system bridging Government, Industry and Academia by Texas Instruments and AICTE, DST
Research grants Received	1.AICTE- STTP Fund of 3lakhs received for the year 2019-20 2. ATAL FDP fund of Rs.93,000/- received for the year 2020-21, 2021-22 3. Received and completed AICTE-MODROB of Advanced Industrial Internet of Things (IIoT) Lab of Rs.7,13,725/- 4. Co-Investigator of DST-TIDE sponsored project titled "Speech to Speech Assistive system for speech impaired persons" of 26.19 lakhs

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Google Scholar Link / ID	ID : https://scholar.google.com/citations?user=Y896Xm8AAAAJ&hl=en
Vidwan Link / ID	ID : https://vidwan.inflibnet.ac.in/profile/305273
Research Gate Link / ID	https://www.researchgate.net/profile/Suresh_Thomas_Antony
Scopus Link / ID	ID : https://www.scopus.com/authid/detail.uri?authorId=57219598497