


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. Gnanasekaran Thangavel / T0923			
Designation	Professor			
Department	Electronics and Communication Engineering			
Date of Joining the Institution	27-05-2011			
Qualifications	B.E (ECE)	MS(Information Technology)	M.E(Applied Electronics)	PhD (ICE)
Total Experience	Overall : 35 years 0 months		in RMK : 13 years 2 months	
Papers Published in Journal	Overall : 71		After Joining RMK : 58	
List of Papers Published	<ol style="list-style-type: none"> 1. T.Gnanasekaran, K.Duraiswamy, M.M.Arunprasath “Novel Method for Embedded RISC Architecture to Reduce Memory Access Energy” published in Journal of Computer Science Vol: 2 no: 4 May-June 08 in page no 639. 2. T.Gnanasekaran, K.Duraiswamy, S.Nima Judith Vinmathi “A Modified Maximum A Posteriori Probability (MAP) algorithm for Turbo Decoder” published in Journal of Computer Science Vol. 3, No. 4, pp. 1080-1085. 3. T.Gnanasekaran, P.Sivaselvi, D.V.Soundari “PERFORMANCE OF UNEQUAL ERROR PROTECTION FOR IMAGE TRANSMISSION USING TURBO DECODING ALGORITHMS” CIT JOURNAL OF RESEARCH (CITJR) Volume 1, No. 4, Dec to Feb 2010- 11. 4. T.Gnanasekaran and K.Duraiswamy “Modified Soft Output Viterbi Error Correcting Algorithm” published in IJCSNS International Journal of Computer Science and Network Security VOL.8 No.9, September 2008, PP 161-165. 5. Gnanasekaran T and K.Duraiswamy “Performance of Unequal Error Protection Using Maximum A- posteriori Probability Algorithm and Modified MAP in Additive White Gaussian Noise and Fading Channel” published in Journal of Computer Science Volume 4, ISSUE 7, ISSN Print: 1549-3636, ISSN Online: 1552-6607 DOI: 10.3844/jcssp.2008.585.590, 2008, PP 585 - 590. Indexed : Scopus 6. T.Gnanasekaran and K.Duraiswamy “Application of Scaling factors for MAP and SOVA for Robust Performance in Forward Error Correction” published in International Journal of Recent Trends in Engineering (Electrical & Electronics), Vol. 1, No. 3, June 2009 pp 47-51. 7. T.Gnanasekaran and Dr.K.Duraiswamy “Performance of Turbo Codes 			

	<p>Using Code Generator [13, 15] and [31, 17] in AWGN and Fading Channel", published in International Journal of Recent Trends in Engineering (Electrical & Electronics), Vol. 2, No. 6, November 2009 pp 20-23.</p> <p>8. T.Gnanasekaran, P.Sivaselvi, D.V.Soundari "Performance of Turbo Decoding Algorithms for Image Transmission Using JSCC" published in International Journal of Computational Intelligence & Telecommunication Systems, Vol. 2, No.1, January-June 2011, pp27-32.</p> <p>9. T.Gnanasekaran, T.Kadhambari and K.Kanagasundaram "Performance of Various Scheduling Algorithms in Mobile WiMAX" published in CiIT International Journal of High Performance Communication Systems and Networking, Vol. 3, No1, January-June 2011, pp53-58.</p> <p>10. T.Gnanasekaran and V.Aarthi "Performance Enhancement of Modified SOVA Decoding Algorithm for Turbo Codes" published in CiIT International Journal of Networking and Communication Engineering, Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616, Vol3, No 4, March 2011. http://www.ciitresearch.org/dl/index.php/nce/article/view/NCE032011013</p> <p>11. T.Gnanasekaran, K.Thamrairubini, K.Kanagasundaram and Kadhar Nawaz "Performance Evaluation of QoS for WiMAX Mesh networks using Centralized Scheduling Algorithm" published in CiIT International Journal of Wireless Communication, Print: ISSN 0974 – 9756 & Online: ISSN 0974 – 9640, March 2011.</p> <p>12. T.Gnanasekaran and V.Aarthi "Effect of Constraint Length and Code Rate on the Performance of Enhanced Turbo Codes in AWGN and Rayleigh Fading Channel" published in WSEAS TRANSACTIONS ON COMMUNICATIONS, Vol.10 issue 5 ISSN: 1109-2742, May 2011,pp 137-146.(AU/Anx II/ 19195), https://dl.acm.org/citation.cfm?id=2037102.http://www.worldses.org/journals/communications/communications-2011.htm.http://www.wseas.us/e-library/transactions/communications/2011/53-308.pdf</p> <p>13. T.Gnanasekaran and V.Aarthi, NS Pradeep "Performance Enhancement of Modified Turbo Decoding Algorithms for Mobile WiMAX" published in AJEEE: Australian Journal of Electrical and Electronics, Vol. 9 No 2, ISSN: 1448-837X, October 2012, pp 153-163. https://doi.org/10.1080/1448837X.2012.11464319(Annexure 2).https://www.tandfonline.com/doi/abs/10.1080/1448837X.2012.11464319</p> <p>14. Dr.T.Gnanasekaran, S.Punithashankari, P.Kalyanasundaram, "Energy Saving In Wireless Sensor Network Using Burst Algorithm" IOSR</p>
--	--

Journal of Electronics and Communication Engineering (IOSR-JECE), e-ISSN: 2278-2834, p- ISSN: 2278-8735. Volume 5, Issue 1 (Jan. - Feb. 2013), PP 52-59. 10.9790/2834-0515259 , <http://www.iosrjournals.org/iosr-jece/papers/Vol5-Issue1/H0515259.pdf>

15. Kavitha S, Dr.Varghese Paul, Dr.T.Gnanasekaran, **“Color Face Recognition using Texture Features and Fractional Fourier Transforms”** International Journal of Scientific & Engineering Research, Volume 4, Issue 8, August 2013 ISSN 2229-5518. (Annexure 2)
16. Kalyanasundaram.P, Priyadharshini.M, Dr.Gnanasekaran.T,**“The Unceasing Detection of Adjoining Nodes, Its Connectivity, Weakness Impact on Wireless Sensor Networks and Actor Networks”**, International Journal of Innovative Research in Science, Engineering and Technology, Vol.3, Special Issue 1, February 2014.,PP 1346-1362. http://www.ijirset.com/upload/2014/icets/134_EC353.pdf
17. T.D.Subash, Dr.T.Gnanasekaran, J.Jagannathan, C.Divya, **“Relative Analysis of GaAs, InSb, InP Using QWFET”**, International Journals of Advanced Materials Research. Vol 984-985(June 2014) pp 1080-1084. <https://doi.org/10.4028/www.scientific.net/AMR.984-985.1080>
18. T.D.Subash ,T.Gnanasekaran,J.C. Divya and J.Jagannathan, **“Design and Simulated Characteristics of Nanosized InSb Based Heterostructure Devices”** Advances in Materials Science and Engineering, Volume 2014(August), Article ID 196732, 5 pages, <http://dx.doi.org/10.1155/2014/196732>.<http://www.hindawi.com/journals/amse/2014/196732/>
19. T.D.Subash ,T.Gnanasekaran, **“Indium antimonide based HEMT for RF applications”** Journal of Semiconductors, Vol. 35, No. 11, November 2014, © 2014 Chinese Institute of Electronics. DOI:10.1088/1674-4926/35/11/113004, <https://iopscience.iop.org/article/10.1088/1674-4926/35/11/113004>
20. M.Baskar, T.Gnanasekaran, T.S.Arulananth **“Passive Optical Network Supporting Seamless Integration of RoF and OFDMA Signals**, International Journal of Engineering Research Volume No.3, Issue No.12,pp: 726-729, ISSN:2319-6890(online),2347-5013(print) 01 Dec. 2014.
21. M.Baskar, T.Gnanasekaran **“Detecting And Mitigating Malicious Packets Losses Using Random Early Detection Method”** International

Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1704-1709 ISSN 0973-4562, March 2015. (Annexure 2)
http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_102.pdf

22. Kalyanasundaram.P , T.Gnanasekaran **“Dynamic Key Generation and Prevent Link from Adversary in Wireless Communication ”** International Journal of Advanced and innovation Research (IJAER) Volume 04, Issue 03, 03rd March 2015.
23. Kalyanasundaram.P, T.Gnanasekaran **“Energy Optimal Cog-Mac for controlling WLAN coexistence Interference in sensor Networks”** International Journal of Advanced and innovation Research (IJAER) Volume 04, Issue 10, 10th October 2015.
24. T.S. Arulananth, Dr. T. Jayasingh, M. Baskar, Dr.T.Gnanasekaran, **“Hand Free Mouse Access Based On Face Action For The Challenged Human Using Dsp Algorithm”** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20, pp 2043-2048 (2015). (Annexure 2)
25. BASKAR M, GNANASEKARAN T, ARUL ANANTH T S, **“IP Based Adaptive Intrusion Tracing Mechanism for Detecting Low Rate DDoS Attacks”** International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20, pp 2025-2030 (2015). (Annexure 2)
26. T.D.Subash, T.Gnanasekaran, A.Karpaga selvi, S.Bagtha priya, R.Kavitha **“Enhanced Sder Clock Gating Flipflop In A Synchronous System”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1466-1470 ISSN 0973-4562, March,2015.http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_49.pdf
27. T.D.Subash, T.Gnanasekaran, V.Ajitha, R.Rajimol, R.Ratheesha, **“Design of Low Power Clock-Gated Double Edge –Triggered Flip-Flops”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1952-1968, ISSN 0973-4562, March 2015.
http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_152.pdf
28. T.D.Subash, T.Gnanasekaran, T.D.Subha, T.D.Subashini, **“The Role of LSDCCFF for LC Resonant Clock Distribution Networks in Low Power VLSI”** International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1949-1953, ISSN 0973-4562, March 2015. http://www.ripublication.com/ijaer_spl/ijaerv10n2spl_150.pdf
29. P.KALYANASUNDARAM, S.KIRUTHIKA, Dr.T.GNANASEKARAN **“ Mobile Sink Approach In Energy Efficient Wireless Sensor Network**

With Pairwise Key Generation For Smart Grid Environment"

International Journal of Applied Engineering Research (IJAER) Volume 10, Number 2,2015, pp1998-2002, ISSN 0973-4562, March 2015.
<https://www.ripublication.com/Volume/ijaerv10n2spl.htm>

30. Priya B, T.Gnanasekaran **"Scheduling and Load Balancing Algorithms in Grid – A Comparative Study"**, International Journal of Applied Engineering Research, (IJAER), ISSN 0973-4562 Vol. 10, no.75(2015)@Research India Publications.
<https://www.ripublication.com/Volume/ijaerv10n75spl.htm>
31. Dr.T.Gnanasekaran, Mr.M.Baskar, Ms.B.Saranya published a technical paper on **"Preserving the Privacy of a Private Image using Visual Cryptography"** for International Journal for Scientific Research & Development, Volume No 03, Issue No. 02, April 2015 ISSN (online): 2321 – 0613.
32. Kalyanasundaram P, Nirmal Kumar K, Dr.T.Gnanasekaran, **"Energy Optimal Cog-Mac for Controlling WLAN Coexistence Interference in Sensor Networks"**, International Journal of Advanced and Innovative Research (2278-7844) , Vol. 4, Issue 10, October 2015, PP 143-159.
33. T.D Subash, T Gnanasekaran, P Deepthi Nair, **" Analytical modeling of AllnSb MOS gate HEMT structure with improved performance"** International Journal of Modeling, Simulation, and Scientific Computing, Vol. 7, No.3(2016) 1672001 March 2016.
<https://doi.org/10.1142/S1793962316720016>
<http://www.worldscientific.com/doi/abs/10.1142/S1793962316720016>
34. Kalyanasundaram P, Dr.T.Gnanasekaran **"A Multi-Hop Dynamic Path Algorithm for the augmented lifetime of Wireless Sensor Networks Hop Dynamic Path-selection (MHDP) algorithm for the augmented lifetime of selection (MHDP) algorithm for the augmented lifetime of Wireless Sensor Networks"** Circuits and Systems, 2016, Scientific Research Publishing, Published Online **** 2016 in SciRes.
<http://www.scirp.org/journal/>,http://dx.doi.org/10.4236/cs.2016.***
** https://www.scirp.org/pdf/CS_2016082915244020.pdf. (Annexure 1).
35. T. D. Subash,T.Gnanasekaran, and M. Freeda, **"Synthesis of ZrO2 nanoparticle and design of HEMT devices"** INTEGRATED FERROELECTRICS, VOL. 176, 132-139, Taylor & Francis 2016. (Annexure1)

<https://doi.org/10.1080/10584587.2016.1250184>.<http://www.tandfonline.com/doi/full/10.1080/10584587.2016.1250184>.

36. Kalynasundaram P, Nirmal Kumar K, T.Gnanasekaran **“Adaptive COG-MAC scheme for coexistence of IEEE 802.15.4 with other interfering systems”** International Journal of Advanced research trends in engineering and technology, VOL. 3, April 2016.
37. Baskar M & Gnansekaran.T, **“Developing Efficient Intrusion Tracking System using Region Based Traffic Impact Measure Towards the Denial of Service Attack Mitigation”**, Publishing in Journal of Computational and Theoretical Nanoscience (CTN), Vol. 14, 3576–3582, pp 3576-3582 <https://doi.org/10.1166/jctn.2017.6789>, <https://www.ingentaconnect.com/content/asp/jctn/2017/00000014/00000007/art00059>,December 2016. (Annexure 1).
38. Kalynasundaram P, T.Gnanasekaran, **“A noval method for optimizing maximal lifetime coverage (OMLC) scheduling of nodes in wireless sensor networks” 2016** IIOABJ | Vol. 7 | 9 | 404-410 Indexing: SCOPUS. https://www.iioab.org/articles/IIOABJ_7.9_404-410.pdf
39. Baskar, M & Gnansekaran, T, **“Multi Model Network Analysis for Improved Intrusion Tracing towards Mitigating DDoS Attack”**, Asian Journal of Research in Social Sciences and Humanities, vol. 7, no. 3, pp. 1343-1353, March 2017. (Annexure 1). Journal of Research in Social Sciences and Humanities. Article DOI : 10.5958/2249-7315.2017.00247.7
40. J.M.Nandhini, T.Gnanasekaran.**“Fault Tolerance using Adaptive Checkpoint in Cloud – An Approach”** International Journal of Computer Applications (IJCA) (0975 – 8887). DOI 10.5120/ijca2017915155, Volume 175, No.6, 09-14pp <https://www.ijcaonline.org/archives/volume175/number6/nandhini-2017-ijca-915155.pdf>, August 2017
41. Priya B, T.Gnanasekaran.**“ Hierarchical Load Balancing algorithms in Cloud: A Survey”** International Journal of Computer Applications (IJCA) (0975 – 8887). Volume 171 – No.4, pp 19-21, DOI 10.5120/ijca2017915018 , <https://www.ijcaonline.org/archives/volume171/number4/priya-2017-ijca-915018.pdf> August 2017
42. M. Baskar, T.Gnanasekaran, J. Frank Vijay, **“Time Variant Predicate Based Traffic Approximation Algorithm for Efficient low Rate DDoS**

Attack Detection” published in TAGA JOURNAL OF GRAPHIC TECHNOLOGY, Vol.14, pp352-368, ISSN: 1748-0345 (Online), 1748-345 (Print), February 2018. AU Annexure 1 (T1) <http://www.tagajournal.com/gallery/v14.33.pdf>

43. T. Rajendran, T. Gnanasekaran, **“Multi level object relational similarity based image mining for improved image search using semantic ontology”** Cluster Computing (2018) The Journal of Networks, Software Tools and Applications(Springer) ISSN: 1386-7857 (Print) 1573-7543 (Online), pp 1–8, <https://doi.org/10.1007/s10586-018-1975-8>. Indexing: SCOPUS and SCI
44. Santhosh Krishna B V, Gnanasekaran T, and Aswini S , **“Unsupervised Morphological Approach for Retinal Vessel Segmentation”** in Progress in Computing, Analytics and Networking, Advances in Intelligent Systems and Computing, pp 743-752 https://doi.org/10.1007/978-981-10-7871-2_71, April 2019.
45. Priya B, Gnanasekaran T, **“State of the art - optimization techniques in cloud environment”** in International Journal of Engineering & Technology, Vol. 7, no2.33, (2018) pp56-58. DOI: 10.14419/ijet.v7i2.33.13854 <https://www.sciencepubco.com/index.php/ijet/article/view/13854> Indexing: SCOPUS.
46. J.M.Nandhini , Gnanasekaran T, **“ Review on failure forecast in cloud for a fault tolerant system”** in International Journal of Engineering & Technology, 7 (2.33), pp67-70 (2018) DOI: 10.14419/ijet.v7i2.33.13857, <https://www.sciencepubco.com/index.php/ijet/article/view/13857>, Indexing: SCOPUS.
47. Santhosh Krishna B V, Gnanasekaran T , **“Unsupervised Automated Retinal Vessel Extraction Framework Using Enhanced Filtering and Hessian Based Method with Hysteresis Thresholding”** Journal of Medical Imaging and Health Informatics (American Scientific Publishers), Vol. 9, 1000–1010, February 2019. <https://doi.org/10.1166/jmihi.2019.2687>
48. T. Rajendran, M. Baskar, T. Gnanasekaran, N. Mohamed Imtiaz, **“Class Based Semantic Feature Similarity for Efficient Image Mining using BC Patterns”** International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-6, April 2019. Indexing: SCOPUS. <https://www.ijitee.org/wp-content/uploads/papers/v8i6/F3598048619.pdf>,pp355-358

49. J. M. Nandhini, T. Gnanasekaran “**Enhanced Fault identification and optimal task prediction (EFIOTP) algorithm during multi-resource utilization in cloud-based knowledge and personal computing**”. The journal Personal and Ubiquitous Computing(Springer Nature), ISSN: 1617-4909 (Print) 1617-4917 (Online), July 2019, DOI <https://doi.org/10.1007/s00779-019-01265-6>.
https://link.springer.com/article/10.1007/s00779-019-01265-6?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorContributingOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorContributingOnlineFirst_20190728, Indexing: SCOPUS and SCI
50. Priya B, Gnanasekaran T , “**To optimize load of hybrid P2P cloud data-center using efficient load optimization and resource minimization algorithm**”. The journal Peer-to-Peer Networking and Applications (Springer Science+Business Media, LLC, part of Springer Nature 2019), ISSN 1936-6442 (Print) ISSN: 1936-6450 (electronic version) DOI <https://doi.org/10.1007/s12083-019-00795-3>, Anna University Journal Reference Number: 9254, Indexing: SCOPUS and SCI
51. SANTHOSH KRISHNA B V, GNANASEKARAN T, “**Retinal Vessel Extraction Framework Using Modified Adaboost Extreme Learning Machine**” Journal of Computers, Materials & Continua CMC, Vol.60, no.3, pp.855-869, August 2019. CMC. doi:10.32604/cmc.2019.07585, www.techscience.com/cmc Annexure 1, Indexing: SCOPUS and SCI.
52. J. M. Nandhini, T. Gnanasekaran, “**Enhanced fault identification and optimal task prediction (EFIOTP) algorithm during multi-resource utilization in cloud-based knowledge and personal computing**”. The journal Personal and Ubiquitous Computing(Springer Nature), ISSN: ISSN 1617-4909 (DOI <https://doi.org/10.1007/s00779-019-01265-6>
53. Chairma Lakshmi K.R, Gnanasekaran T, “**Border Alert and Life Projection System for Fishermen**” Journal of Advanced Engineering Research ISSN: 2393-8447 Volume 6, Issue 1, 2019, pp.10-15. https://dl.jaeronline.com/papers/vol06issue012019/03_JAER_V6N1.pdf
54. B. Priya and T. Gnanasekaran, “**A Comprehensive Study on the Load Assessment Techniques in Cloud Data Center**” in Springer Nature Switzerland AG 2020, New Trends in Computational Vision and Bio-inspired Computing, https://doi.org/10.1007/978-3-030-41862-5_19 (Scopus and Web of Science Indexed). pp 207-214

55. B. Praveena, K.R. Chairma lakshmi, Dr. T. Gnanasekaran, K. Srinidhi, **“Monitoring Of Transformer And Generator Using Iot”**, International Journal of Advanced Science and Technology, Vol. 29, No. 9s, (2020), pp. 3470-3476, ISSN: 2005-4238 IJAST, May 2020, <http://sersc.org/journals/index.php/IJAST/article/view/16331> (Scopus Indexed)
56. Aswini S, Gnanasekaran T, **“Detection of Glaucoma by Optic Disc and Optic Cup Segmentation”**, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, © 2020 IJSRCSEIT | Volume 4 | Issue 11 | ISSN : 2456-3307 (www.ijsrcseit.com) <https://ijsrcseit.com/paper/CSEIT1194911.pdf>
57. Priya B, Gnanasekaran T, **“Optimal Resource Allocation and Quality of Service Prediction in Cloud”** Journal of Computers, Materials & Continua CMC, Vol.67, no.1, pp.253-265, January 2021. CMC. DOI:10.32604/cmc.2021.013695, www.techscience.com/cmc Annexure 1, Indexing: SCOPUS and SCI.
58. Book chapter in RECENT TRENDS IN ENGINEERING AND TECHNOLOGY, ISBN – 9788194714989 Priya. B, Nandhini J.M and Gnanasekaran Thangavel, **“NATURAL LANGUAGE PROCESSING – A PANORAMIC VIEW”** in Recent Trends in Engineering And Technology, ISBN – 9788194714989, PP 82-89.
59. Nandhini Jembu Mohanram, Gnanasekaran Thangavel and N. M. Jothi Swaroopan, **“Fault Aware Dynamic Resource Manager for Fault Recognition and Avoidance in Cloud”** in the journal of Computer Systems Science & Engineering (Tech Science Press), Vol.38, No.2, 2021, pp.215-228, 24.04.2021, doi:10.32604/csse.2021.015027, Annexure 1, Indexing: SCOPUS, Web of Science and SCI. <https://www.techscience.com/csse/v38n2/42336>.
60. Priya B, Nandhini J, Gnanasekaran T, **“An Analysis of the Applications of Natural Language Processing in Various Sectors”** Advances in Parallel Computing, IOS Press, Vol.67, no.1, pp.598-602, October 2021. DOI: doi:10.3233/APC210109, Indexing: SCOPUS.
61. Priya B, Nandhini J, Gnanasekaran T, Sethukarasi **“BIG PICTURE ANALYSIS OF RESOURCE ALLOCATION IN FOG COMPUTING”**, 1st International Conference on Computational Science and Technology (ICCST 22) Technically sponsored by IEEE, Organized by Department of Computer Science and Engineering, Sai Ram Engineering College during 9th and 10th November 2022 (Scopus Indexed)

<https://doi.org/10.1109/ICCST55948.2022.10040389>,

<https://ieeexplore.ieee.org/document/10040389> , 14th February 2023,
Indexing: SCOPUS.

62. Senthil Kumar K R; Gnanasekaran T; Bharath Singh Jebaraj; Vignesh S; Vignesh M; Kavim C "**Design and Fabrication of Multi-functioned Seed Sowing Machine**," 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), Tuticorin, India, 2023, pp. 151-155, doi: 10.1109/ICEARS56392.2023.10085567. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10085567&isnumber=10084923>
63. Bharath Singh Jebaraj; Selvalakshmi Sekar; Sushmitha S; Priyadharshini S; Jayapriya Yu; Gnanasekaran T "**IoT-based Automatic LPG Refilling and Leakage Detection System**," 2023 International Conference on Innovative Data Communication Technologies and Application (ICIDCA), Uttarakhand, India, 2023, pp. 858-862, doi: 10.1109/ICIDCA56705.2023.10099790. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10099790&isnumber=10099489>
64. Gnanasekaran T; Senthil Kumar K R; Bharath Singh Jebaraj "**Flexible Light Intensity Control of Headlamp and Health Monitoring System**," 2023 2nd International Conference on Edge Computing and Applications (ICECAA), Namakkal, India, 2023, pp. 1435-1440, doi: 10.1109/ICECAA58104.2023.10212282. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10212282&isnumber=10212098>
65. Chairma Lakshmi K R; Vijay Anandh R; K. Rajalakshmi; Seena Simon; Golden Stepha; Gnanasekaran T, "**Impact of Shadow or Dust on Solar Photovoltaic Power Generation System**," 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), Tuticorin, India, 2023, pp. 196-200, doi: 10.1109/ICEARS56392.2023.10085410. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10085410&isnumber=10084923>
66. Chairma Lakshmi K R; Gnanasekaran Thangavel; Kalai Chelvan V; Aadithya V; Julian Devapiriyam R K "**A Study of the Effect of Optical Filters on the Performance of Solar Panel**," 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), Tuticorin, India, 2023, pp. 319-324, doi: 10.1109/ICEARS56392.2023.10085608. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10085608&isnumber=10084923>

	<p>67. Chairma Lakshmi K R; Praveena B; Sahaana G; Nithya Jenev J; Gnanasekaran T; Mohammed Hashim, "Yolo for Detecting Plant Diseases," 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), Coimbatore, India, 2023, pp. 1029-1034, doi: 10.1109/ICAIS56108.2023.10073875. https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10073875&isnumber=10073655</p> <p>68. Dr Gnanasekaran T, Vivekrabinson K; Bharath Singh Jebaraj; Lavanya V; Shanmuga Raja B; "Cloud-Powered Precision: Revolutionizing Fault Detection in Thermal Power Plants" International Conference On Research Methodologies In Knowledge Management, Artificial Intelligence And Telecommunication Engineering (IC-RMKMATE'23), 2023. https://doi.org/10.1109/RMKMATE59243.2023.10368674</p> <p>69. Dr Gnanasekaran T, V. V. Jaya Rama Krishnaiah; Nazeer Shaik; S. Preethi "Classification of Land Patterns from Indian Pines Dataset Using ResCNN" 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE),2023 Dol: https://doi.org/10.1109/RMKMATE59243.2023.10369016</p> <p>70. Gnanasekaran T, Sofia Vincent J.Dinesh Babu M, HarishBabu T.,Chairma Lakshmi K. R, Book Chapter, "An Early Warning System for Predicting Earthquakes" Book Title: Novel AI Applications for Advancing Earth Sciences, ISBN13:9798369318508, EISBN13:9798369318515, IGI Global Publications, 2023. https://doi.org/10.4018/979-8-3693-1850-8.ch011.</p> <p>71. Gnanasekaran T., Nirmala G., Hariharan N., Rajakumar S. Book Chapter, "Technical Challenges Faced in Designing Frameworks for AI-Based Earth Monitoring Systems, Book Title: Novel AI Applications for Advancing Earth Sciences, ISBN13:9798369318508, EISBN13:9798369318515, IGI Global Publications, 2023. https://doi.org/10.4018/979-8-3693-1850-8.ch002.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 60	After Joining RMK : 50
Ph.Ds / Projects Guided	Ph.Ds Guided : 07	Student Projects Guided : 52
Books Published :	Count : 07	

	<p>List :</p> <ol style="list-style-type: none"> 1. B.V Santhosh Krishna,T.Gnanasekaran,J.Jijin Godwin, Multimedia Compression Techniques / Communication, A R S Publication Chennai,2016,ISBN 13: 9789384608774. https://booksdelivery.com/multimedia-compression-techniques-by-santhosh-krishna-from-ars-publications 2. B.V Santhosh Krishna, T.Gnanasekaran, Wireless Networks, A R Publication, Chennai, 2017 ISBN 13: 9789384634216. 3. T.Gnanasekaran, B.V Santhosh Krishna, Opto Electronic Devices, A R Publication, Chennai,2018, ISBN 13: 9789384634414. 4. T.Gnanasekaran, B.V Santhosh Krishna,J.JIJIN GODWIN, Communication Engineering, A R S Publication, Chennai, 2019,ISBN 13: 9789384608583. https://arspublications.com/product/communication-engineering/ 5. T.Gnanasekaran B.V Santhosh Krishna, Wireless Networks, A R S Publication, Chennai, 2019, ISBN 978-93-87255-67-8. https://arspublications.com/product/wireless-networks/ 6. T.Gnanasekaran B.V Santhosh Krishna, Wireless Communication, A R S Publication, Chennai,2020,ISBN 978-93-84608-18-7. https://arspublications.com/product/792/ 7. B.V Santhosh Krishna T.Gnanasekaran, Networks and Security, A R S Publication, Chennai 2023 ISBN978-93-84608-52-1
--	---

Patents	Published Count : 14			Granted Count : 03	
	List :				
	Sl.No.	Name of the Inventors	Title	Application no. & patent filed Date	Current Status
	1.	1. Dr.S.Vijayalakshmi 2. Dr.T.Gnanasekaran 3. Yogalakshmi. K 4. SakalaVishaliSakuntala 5. P. Srilatha	Design of Compressor Less Water Chiller and Heater	201741022392 27/06/2017	Granted Patent No. 371884 Date of Grant: 14.07.2021
	2.	1. K.R. Chairma Lakshmi 2. Dr. T. Gnanasekaran 3. H.JayaprakashB.Giridhar 4. N.K.Dhanasekar 5. D.Dinesh Kumar	Border Alert and Life Protection System for Fishermen	201741022591 28/06/2017	Granted Patent No. 389281 Date of Grant: 15.02.2022
3.	1. J. Bharath Singh 2. Dr.T.Gnanasekaran 3. R. Rathi 4. R. Sobana 5. K. Swarna Priya	Buddy StickFor Challenged PeopleWith Bus Identification	201841049954 31/12/2018	Application Published 03/07/2020	
4.	1. Aparna M 2. DivyaNachiar R 3. Akalya A	Smart Waste Management	201941049420	Granted Patent No. 508793	

		4. Chairma Lakshmi K R 5. Gnanasekaran T	Using Credit Fetcher	02/12/2019	Date of Grant: 08.02.2024
	5.	1. Mr.K. Vijayanand 2. Dr.T.Gnanasekaran	Catalytic Converter Efficiency Monitoring System	202041045 390 19/10/2020	Published 22/04/2022
	6.	1. Dr. K.A. Mohamed Junaid 2. Mr. G. Marimuthu 3. Dr.T.Gnanasekaran	Smart On/Off Controller	202041044 204 & 10/10/2020	Published 15/04/2022
	7.	Dr.T.Gnanasekaran	3600 Cradle Sitter – A Toddler Monitoring System For Smart Cradle Using IoT And AI	202141006 077 19/02/2021	Application Published 19/02/2021
	8.	1.Dr.N.M. JothiSwaroopan 2.Dr.T.Gnanasekaran 3.Ms.B. Praveena 4.Ms J Sandhiya. 5.Ms D.G Shakthipriya 6.Ms K Sangavi	Automatic Access Control system using Deep Learning for COVID-19	202141029 941 03.07.2021	Awaiting Request for Examination 06/01/2023
	9.	Mr.K Vijay Anand Mr. Prabhu U Ms. N. Nirmitha Mr. Lokamithran Mr. Mohammed Hasim Dr. K. A. Mohamed Junaid Dr.T. Ganesekaran	Mini Robot for Medication adherence and monitoring for elderly Covid prevention by detecting mask and maintaining the social distance	202141059 517 20/12/2021	Published & Exam Fee paid 04/02/2022
	10.	Mr.K Vijay Anand A. Anto Nobel M. Arun Kumar Dr. K. A. Mohamed Junaid Dr.T. Ganesekaran	AI Based Image Processing System for Tracking and Monitoring the Health and status of Animals	202141059 519 20/12/2021	Published & Exam Fee paid 04/02/2022
	11.	Mr.Gopalakrishnan. A	AFFORDABLE	202241019	Published

		Mr.Tharun Kumar. A Mr.Thilak. S.M. Ms.Priyadharshini Ms.Pravaeena Dr.N.M. Jothi Swaroopan Dr. T.Ganesekartan	UAV FERTILIZER DISTRIBUTOR	808 31/03/2022	& Exam Fee paid 13/05/2022
	12.	Ms.S.Bhoommikha Ms.K.Kaviya Ms.Selvalakshmi Ms.Prvaeena Mr.J.Barath Singh Dr.N.M. Jothi Swaroopan Dr. T.Ganesekartan	ANTI-SNOOZE DEVICE	202241019 807 31/03/2022	Published & Exam Fee paid 13/05/2022
	13.	1.N M Jothi Swaroopan 2.Dr. T. Gnanasekaran 3.K.R.Chairma Lakshmi	IMPLEMENTA TION OF REAL- TIME CHATBOT HARDWARE USINGANDROI D	202341077 848 16/11/2023	Published on 22.12.2023
	14.	Dr. T. Gnanasekaran	Device for ATM Card for Multiple Bank Accounts	202441022 999 23.03.2024	Published on 29.03.2024
Professional Memberships	Count : 13				
	List : <ol style="list-style-type: none"> 1. Institution of Engineers (India) IEI 2. Indian Society for Technical Education (ISTE) 3. International Association of Engineers (IAENG) 4. Association of computer Electronics and Electrical Engineers (ACEEE) 5. Institute of Doctors Engineers and Scientists (IDES) 6. The Institute of Engineering and Technology (IET) 7. Institute of Electrical and Electronics Engineers (EEEE) 8. Computer Science Teacher Association (CSTA) 9. Institute of Research Engineers and Doctors (IRED) 10. Association for Computing Machinery (ACM) 11. International Society for Research and Development (ISRDR) 12. Instrumentation Society of India (ISOI) 13. Indian Society of System for Science and Engineering (ISSE) 				
Consultancy Projects Completed	Count : 15				
Awards Received	Count : 3				

	<ol style="list-style-type: none"> 1. Awarded DISTINGUISHED ALUMNI AWARD for achievement in Academics and Research from Vellore Institute of Technology (VIT) during VITAA Day, 26th January 2014. 2. Awarded Best Faculty Award by Cognizant for year 2017-18. 3. Awarded Best Faculty Advisor Award by IEI in 2024
Research grants Received	<ol style="list-style-type: none"> 1. National Seminar on “Recent trends in Broadband Wireless Technology”-Two days (16 March 2007 – 17 March 2007),AICTE: Rs 75000 2. Faculty Development Programme on “Web Technologies” 5 days 3rd June 2013 to 7th June 2013, ISTE-SRM, Rs 100000 3. National Seminar on “Recent trends in Broadband Wireless Technology” 2 days 16th and 17th December 2013, AICTE, Rs 50000. 4. Modernization and Removal of Obsolescence For Establishment of Laboratory For Testing And Calibration of Industrial Instruments, AICTE, Rs 800000. 5. Enhancing accessibility, and independence for visually impaired using computer vision, MSME Idea Hackathon 3.0, MSME, Rs 1500000.
Orchid Link / ID	https://orcid.org/0000-0003-4005-6482
Google Scholar Link / ID	https://scholar.google.com/citations?hl=en&user=qCoBNuMAAAAJ
Vidwan Link / ID	https://vidwan.inflibnet.ac.in/profile/305196
Research Gate Link / ID	https://www.researchgate.net/profile/Gnanasekaran_Thangavel
Scopus Link / ID	https://www.scopus.com/authid/detail.uri?authorId=56366454300