

CURRICULUM VITAE

Dr.M.MALLESWARAN

1.Present Position : Assistant Professor and Head,
DEPARTMENT OF ECE,
University college of engineering Kancheepuram,
Kanchipuram.
malleshaut@gamil.com
cell no:9840166449

2.Educational Qualifications : B.E., M.Tech., Ph.D.,

Details:

Sl.No.	Degree	University/College	Year of Passing	Percentage of marks, Rank/class
1.	Ph.D	MIT Campus, Anna University	2014	Highly Commended
2.	M.Tech	SRM University	2007	First Class with Distinction University second rank
3.	B.E	MK University	1992	71.8, Third rank in college level

3. Professional experience:

Teaching and Research Experience: 24 years

Details:

Sl. No.	Name of the College, University	Designation	From	To
1.	Smt. Indira Gandhi Engg college, New Bombay	Lecturer	06/06/1992	20/05/1996
2.	Sathyabama Engg college, Chennai.	Lecturer	10/06/1996	31-10-2000
3.	SRM-Valliammai Engg college,	Senior	02/05/2001	31/05/2007

	Chennai.	Lecturer		
4.	M.I.T Campus, Anna University	Lecturer	09/07/2007	31/08/2009
5.	Anna University Regional Center, Tirunelveli	Asst professor	02/09/2009	06/08/2014
6.	University College of Engineering, Anna University, Kanchipuram Campus	Assistant Professor &Head (ECE)	07/08/2014	07/08/2020 Till date

4. List of Publications in International Journals/Conferences

International Journals:

- Muthaiyan,R., & Malleswaran, M. 2022. “An Automated Brain Image Analysis System for Brain Cancer using Shearlets”, Computer Systems Science and Engineering, Vol.40, No.1, pp. 299-312. (Published Online 26 August 2021). Impact Factor 1.486. DOI:10.32604/csse.2022.018034
- Muthaiyan,R., & Malleswaran, M. 2022. “Bendlets and ensemble learning based mri brain classification sysytem”, Intelligent Automation & Soft Computing, Vol.33, No.2, pp. 891-907. (Published Online 8 February 2022). Impact Factor 1.647. DOI:10.32604/iasc.2022.024635
- K Nagarajan, M Malleswaran, High bit rate all-optical 4 to 1 multiplexer by cascading of AND and OR gates in two-dimensional photonic crystals
Optical Engineering 60 (12), 127110,2021
- VM J. Boobalan., M. Malleswaran, ES-AOMDV: A NOVEL AND ENERGY EFFICIENT ROUTING PROTOCOL FOR WSN, Ad Hoc and Sensor Wireless Networks 50 (1-4), 255-276,2021.
- Malleswaran,M and Kumaresh, S. S.. 2021, “Ageing Status prediction in Oil Impregnated Insulating Kraft Paper Using GLCM Based Textural Features” IEEE - Transaction on Dielectric and Electrical Insulation, DOI: 10.1109/TDEI.2021.009628, Impact factor : 2.93.
- Malleswaran,M and Kumaresh, S. S., 2021, “ Performance Evaluation of RSM and ANFIS in modellingNano Fluids-Bsaed Mixed Insulating Fluids”,IETE Journal of Research, pp 1-12,DOI:10.1080/03772063.2021.1888811. Impact Factor :2.333.

- M. Malleswaran, V. Sivachandran 2019, ‘A Mathematical Model for Cell Zooming of Base Station Using Classification Approach’, Applied Mathematics Information Sciences – Natural Sciences Publishing, Date of Acceptance 11-Jan-2019, Volume 102, Issue 4, pp2113-2126.
- 4. M.Malleswaran,V.Sivachandran 2018, ‘Performance Analysis of Energy – Efficient Cellular Networking on Urban and Rural Environments, Wireless personal communications, Springer pub, Vvol.12/2018,pp23-45.
- M.Malleswaran, S.S.Kumersh 2018, ‘Multi-Response Optimization for Nano fluids based insulating fluids using RSM based Desirability Analysis, Journal of Electrical Engineering: Vol 18/2018,pp144-155.
- M. Malleswaran, V. Sivachandran 2018, ‘Power Consumption based on the Homogeneous Cellular Architecture, International Journal of Computational Engineering Research: Vol 08, Issue 06, ISSN (e): 2250 – 3005.
- Malleswaran.M & Vaidehi.V 2014,‘A novel approach to the integration of GPS and INS using recurrent neural networks with evolutionary optimization techniques’,Aerospace Science and Technology, vol. 32, pp.169-179 Elsevier publications (I.F = 1.022) (Annexure- I).
- M Malleswaran, V Vaidehi, S Irwin, B Robin, IMM-UKF-TFS model-based approach for intelligent navigation,The Journal of Navigation 66 (6), 859-877,2013
- Malleswaran. M, Vaidehi.V, Saravanaselvan.A & Mohankumar. M 2013, ‘Performance analysis of various artificial intelligent neural networks for GPS/INS Integration’, Applied Artificial Intelligence: An International Journal, vol. 27, pp. 367-407 (I.F = 0.457) (Annexure-I).

- Malleswaran. M, Vaidehi.V, Irwin.S & Robin, B 2013, ‘IMM-UKF-TFS Model based Approach for Intelligent Navigation’,*Journal of Navigation*, vol. 66, pp. 859-877(I.F=0.77)(Annexure-I).
- Malleswaran. M, Vaidehi.V & Saravanaselvan.A 2011, ‘Improved Input-Delayed Dynamic Neural Network for GPS/INS Integration’, *LNCS Series, Springer Publication*, vol. 204,pp. 654-672(I.F = 0.012) (Annexure-II).
- Malleswaran.M, Vaidehi.V & Angel Deborah. S 2011,‘ART-CPN Based Aircraft Navigation by GPS/INS Data Integration’, *International Journal of Artificial Intelligent Systems and Machine Learning*, vol. 3, pp. 1-6, January (I.F = 1.261).
- Malleswaran. M, Vaidehi.V & Mary Anitha.J 2011,‘ANFIS-Based Model with Hybrid Evolutionary Algorithm for Optimized INS/GPS Data Fusion’, *International Journal of Fuzzy Systems*, vol. 3, pp. 1-7, January (I.F =0.329).
- Malleswaran. M, Vaidehi. V, Angel Deborah.S & Manjula.S 2010,‘Comparison of RBF and BPN Neural Networks Applied in INS and GPS Integration for Vehicular Navigation’, *International Journal of Electronics Engineering Research*, vol. 2, no. 5, pp. 753-763.
- Malleswaran. M, Vaidehi. V & Angel Deborah. S 2010, ‘Data Fusion Using Different Activation Functions in Artificial Neural Networks for Vehicular Navigation’, *International Journal of Engineering Science and Technology*, vol. 2, no.12, pp. 7676-7690.

- **International conferences:**
 - Nagarajan, K. and Malleswaran, M., 2018, Design and Analysis of Tristate OR logic gate using square lattice in 2D photonic crystal, International Conference on Engineering materials and renewable energy (ICEMRE), organized by University College of Engineering, Villupuram 05.01.2018, Pp 155–159, ISBN 978-93-86638-55-7.
 - Nagarajan, K. and Malleswaran, M., 2016, Performance Analysis of 640Gpbs Capacity Wavelength Division Multiplexing Passive Optical Network, International Conference on Emerging Trends In Electrical, Electronics And Communication Systems (ICEEECS), organized by University College of Engineering, BIT, Anna University, Tiruchirappalli on 26.09.2016, Pp 78–81, ISBN 819211289-6 .
 - **Malleswaran. M, Vaidehi.V & Shivasankari.N** 2013, A novel approach for GPS/INS integration using recurrent neural networks with evolutionary optimization techniques, International conference on SC&SS, Sanfrancisco state Uinversity, CA, USA, vol.3,pp.637-643.
 - **Malleswaran. M, Vaidehi.V & Jebarasi.M** 2012, ‘Neural Networks Review for Performance Enhancement in GPS/INS Integration’, IEEE International Conference on recent trends in information technology ICRTIT-2012,MIT campus,AnnaUniversity,19thto21stApril,pp. 34-39.
 - **Malleswaran. M, Vaidehi. V & Ramesh. H** 2012,‘Non Linear Optimum Filter Based Smoothing Interacting Multiple Model for GPS Navigation System’, IEEE International Conference on recent trends in information technology ICRTIT-2012,MIT campus, Anna University, 19thto 21stApril,pp. 34-39.
 - **Malleswaran.M, Vaidehi. V & Mohankumar. M** 2011, ‘A hybrid approach for GPS/INS Integration using Kalman filter and IDNN’, IEEE International conference on advanced computing ICoAC’2012,MIT campus, Anna University, 14thto 16thDecember, pp. 378-383(Best Paper Award).

- **Malleswaran.M**, Vaidehi. V & Abilash Joseph. R 2011, ‘Genetically Optimized ANFIS based Intelligent Navigation System’, IEEE International conference on advanced computing ICoAC’2012,MIT campus, Anna University, 14thto 16thDecember, pp. 390-395.
- **Malleswaran. M**, Vaidehi.V & Jebarasi. M 2011, ‘Performance Comparison of Autonomous Neural Network based GPS/INS Integration’, IEEE International conference on advanced computing ICoAC’2012, MIT campus, Anna University, 14thto 16thDecember, pp. 401-406.
- **Malleswaran. M**, Vaidehi. V & Angel Deborah.S 2011, ‘CNN Based GPS/INS Data Integration using New Dynamic Learning Algorithm’, IEEE International conference on recent trends in information technology ICRTIT-2011, MIT campus, Anna University, 3rdto 5th June, pp. 211-216.
- **Malleswaran, M**, Vaidehi, V, Manjula, S & Angel Deborah, S 2011, ‘Performance Comparison of HONNs and FFNNs in GPS and INS Integration for Vehicular Navigation’, IEEE International conference on recent trends in information technology ICRTIT-2011,MIT campus, Anna University, 3rdto 5thJune, pp. 223-228.
- **Malleswaran. M**, Vaidehi.V & Angel Deborah.S. 2011,‘Analysis of Associative Memory NNs and Counter Propagation NNs for GPS/INS Data Fusion’, ICMEET, Magna College of Engineering, 11thto 12thApril, pp. 21-27 (Best Paper Award).
- **Malleswaran. M**, Vaidehi.V & Angel Deborah. S 2011,‘Analysis of artificial intelligent networks by GPS/INS data fusion’, International Conference Organized by DRDO, Wireless VITAE, 28th February - 3rdMarch, pp. 79-84.
- **Malleswaran M**, Vaidehi.V, Angel Deborah. S &Manjula. S 2010,‘Analysis of RBF and BPN Neural Networks by Integrating INS and GPS for Vehicular Navigation’, International Conference on Information and Communication Technology (ICICT), Organized by Thiagarajar School of Management, Published by Ciit journal, ISBN 978-1-4507-5165-0, 16thto 17thDecember, pp. 45-50.
- **Malleswaran. M**, Vaidehi.V. Mary Anita. J & Sabreen.SN 2010,‘INS/GPS Data Fusion for Vehicular Navigation System using Neuro Fuzzy Model’, International Conference on Information and Communication Technology (ICICT), Organized by Thiagarajar School of Management, Published by Ciit journal, ISBN 978-1-4507-5165-0, 16thto 17thDecember, pp. 197-202.

- **Malleswaran.M**, Vaidehi V, Mary Anita.J & Sabreen. SN 2010,‘Real-time INS/GPS Data Fusion Using Hybrid Adaptive Network Based Fuzzy Inference’, International Conference on Control, Automation, Robotics and Vision, Organized By Nanyang Technological University, Singapore, 7thto 10thDecember, pp. 1510.
- **Malleswaran. M**, Vaidehi.V, Angel Deborah.S. &Manjula. S 2010,‘Integration of INS and GPS Using Radial Basis Function Neural Networks for Vehicular Navigation’, International Conference on Control, Automation, Robotics and Vision, 978-1-4244-7815-6 IEEE Xplore, Organized By Nanyang Technological University, Singapore, 7thto 10thDecember, pp. 2427-2430.
- **Malleswaran. M**, Vaidehi.V, Mary Anita. J &Sabreen.SN 2010,‘ANFIS-Based Model for Real-Time INS/GPS Data Fusion for Vehicular Navigation System’, Second National Conference on Signal Processing, Communications and VLSI Design-NCSCV'10, Organized by Department of Electronics and Communication Engineering, Anna University Coimbatore, 7thto 8th May 2010, pp. 329-333.
- **Malleswaran. M**, Vaidehi.V, Angel Deborah.S & Manjula. S 2010,‘Integration of INS and GPS Using Radial Basis Function Neural Networks for Vehicular Navigation’, National Conference on Imaging, Computing, Object and Mining (ICOM), Organized by Department of Computer Science and Engineering, Anna University Tiruchirappalli, ISBN 978-93-80408-29-3, 7thto 8thMay 2010, pp. 373-381.
- **Malleswaran.M**, Vaidehi. V, Angel Deborah.S & Manjula.S 2010,‘Integration of INS and GPS Using Back Propagation Neural Networks for Vehicular Navigation’, International Conference, Organized by Anand Institute of Technology, 29thto 30thApril, pp. 116-125.
- **Malleswaran. M**,Vaidehi.V & Balasubramani. C 2009,‘Integration of INS and GPS Using Radial basis function Neural Networks for Vehicular Navigation’, International Conference Organized by Anna University of Technology, Tiruchirappalli, 28th to 29th April, pp. 28-36.
- **Malleswaran. M**, Vaidehi. V & Balasubramani.C 2009,‘GPS/INS Integration by using radial basis function neural network for vehicular navigation’, National Conference on Microwave and Optical Communication (NCMOC'09), ACCET, Karaikudi, 16thApril, pp. 31-39.

5. Membership in Scientific Bodies/Association

- Life Member of I S T E.
- Life Member of IETE.

5. Seminars /Workshops/FDTP participated

- Participated in Two days work shop on Random processes,Queueing Theory and Reliability on VEC,SRM Nagar-603203 on 3 &4th Dec. 2004.
- Participated in AICTE-ISTE sponsored one day seminar on Recent trends in utilisation of non-conventional energy sources at VEC,SRM Nagar-603203 on 10-8-2005.
- Participated in the one day work shop on Mobile computing at MNMJEC Chennai-600096 on 1st October 2005.
- Participated in National Conference on Recent Trends in Communication Techniques organised by NICE,Kumaracoil-629180 on 8 &9th March 2006.
- Participated in First national conference on Innovations in Communication and Computing at SNSCT,Coimbatore-35 on17 March. 2006.
- Participated in IEEE national conference on information and communication convergence at B.S.A . University,chennai-485 on 21-22th Dec. 2006.
- Participated in national conference on software,telecommunications and computer networks at VEC,SRM Nagar-603203 on 9 &10th March. 2007.
- Participated in one day work shop on Recent trends in wireless networks at MIT Campus,chennai-45 on 26th July 2008.
- Participated TEQP Sponserd Four days work shop on Recent advances in UAV at MIT Campus,chennai-45 on 22-25th Semptember 2008.
- Participated in National Conference on Wireless Technologies organised by APEC,Melmaruvathur-603319 on 6 &7th Feburary 2008.
- Participated in Two days international work shop on Content based image retrieval and fusion at MIT Campus,chennai-45 on 7-9 August 2009.
- Participated in International Conference on Recent advances in e-communication and i-technology(REACT-10) organised by AIHT,Chennai-630103 on 29 & 30 th April 2010.

- Participated in National Conference on Imaging, Computing, Object and Mining organised by Anna University Trichy on 7 & 8 th May 2010.
- Participated in International Conference on Information and Communication Technology organised by TSM, Madurai-625005 on 16 & 17 December 2010.
- Participated in National Programme On Technology Enhanced Learning (NPTEL) workshop organised by IIT, Madras on 24th April 2013.
- Participated in Two-days ISTE workshop organised by Indian Institute of Technology, Bombay on 22 December 2012.
- Participated in Two days workshop on Development Of Embedded System using C for ARM with Extensive Hands on Experience organised by MIT, Chennai on 24 th April 2010.
- Participated in National workshop on Next Generation Wireless Technologies - Long Term Evolution (NGWT- LTE), Anna University, Chennai on March 24, 2013.
- Participated in Faculty Development Training Programme Organised by Instrumentation dept, MIT campus, Chennai on November 19- 25, 2012.
- Participated in UGC Sponsored Two days seminar on WBAN- Sensing and signal processing challenges at CEG campus, Chennai-25 on 23-24th March 2015.
- Participated in Faculty Development Training Programme on VLSI Organised by Electronics Dept, MIT campus, Chennai on November 20- 26, 2017.
- Participated in Faculty Development Training Programme on Signals & Systems Organised by Electronics Dept, MIT campus, Chennai on May 28- 3rd June, 2018.
- Foundation Program in ICT for Education (Re-run of FDP101x offered in 2017) organized by IITB from 8 March 2018 to 12 April 2018.

**7. Resource Person (Inaugural address/Guest Lecture/ Chairman)
(selected events only)**

- Resource person to deliver lecture on “Wireless Net Works” in a State Level Seminar on Network Theory and its applications, conducted by the department of ECE IFJCET on 22.02.2013.
- Acted as a Chief Guest and delivered a lecture at the inauguration of ECE Association in the NEC, Kovilpatti on 28-1-2014.

- Delivered a special Lecture in the FDTP sponsored “Applied Soft Computing” conducted by the Anna University, Chennai during December 10-14, 2012.
- Acted as a Technical Session Chair Person in the AICTE sponsored International Conference on soft computing and its applications at MS University, 3-5, September 2012.
- Acted as a Technical Session Chair Person in the National Conference on Communication and networks at UCEN, 3-5, September 2012.
- Acted as a Chief Guest, and delivered a key note address in “Recent trends in Networks” at St Xavier polytechnic College Saithunganallur on 4- 3-2014.
- Delivered a special Lecture in the Department of ECE, UCEK, Kanchipuram in Recent Trends & Tools in “Modern Wireless & Digital Communication Networks” on 13-9-2014.
- Acted as a Chief Guest, and delivered a key note address in “Digital communications” at APEC Kalavai on 12- 08-2015.
- Acted as a Chief Guest, and delivered a key note address in “Wireless communications” at SBCEC, Arni on 24th March 2016.
- Delivered a special Lecture in the Department of ECE, SCSVMV University, Kanchipuram is organizing Faculty Development Training Programme on Recent Trends & Tools in “Modern Wireless & Digital Communication Networks” from 27.06.2016 to 01.07.2016.
- Acted as a Chief Guest, and delivered a key note address in the Department of ECE, ACET, Kanchipuram is organizing NCCCN’2016 from 23.09.2016 to 24.09.2016.
- Delivered a special Lecture in the Anna university sponsored FDTP “Discrete time processing and signal systems” conducted by JMIT, Chennai during November 21-27, 2016.
- Delivered a special Lecture in the Anna university sponsored FDTP “Communication theory” conducted by UCEN, Nagercoil during December 21-27, 2016.
- Acted as a Chief Guest, and delivered a key note address in the Department of EEE, JMEC, Sriperumputhur, Kanchipuram is organizing NCEER’20176 from 23.03.2017 to 24.03.2017.
- Delivered a special Lecture in the Anna university sponsored FDTP “Optical communication and networks” conducted by Rajalakshmi Engg college, Chennai during May 23- 30, 2017.

- Delivered a special Lecture in the Anna university sponsored FDTP “Signals and systems” conducted by RC, AU TVL during June 1-8, 2017.
 - Delivered a special Lecture in the Anna university sponsored FDTP “RF and MW Engg” conducted by Adhi college of engg during May 21-28, 2018.
 - Delivered a special Lecture in the Anna University sponsored FDTP “Microprocessors and its applications” conducted AMEC during June 1-8, 2018.
 - Delivered a special Lecture in the Anna university sponsored FDTP “Digital systems” conducted by JMEC during June 14-21, 2018.
 - Delivered a special Lecture in the online mode on “5 G Wireless Networks” conducted by SVECT, Chittore, AP during June 14th, 2019.
 - Delivered a special Lecture in the online mode on “M to M communications” conducted by VECT, Vijayawada, AP during Aug,4th, 2020.
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- Delivered a special lecture on ‘D to D communications’ in Department of Electronics and Communication Engineering, Vidya Jyothi Institute of Technology, Hyderabad, organize AICTE Sponsored one Week Online Short Term Training Programme (STTP) on “Recent emerging trends in wireless communication using IoT” on November – December 2020 : 09-11-2020 to 14-11-2020 and STTP III : 07-12-2020 to 12-12-2020).
 - Delivered a special lecture on ; Intelligent navigation” in Department of Electronics and Communication Engineering of Francis Xavier Engineering college is organizing a 6 day AICTE Sponsored Online Short Term Training Program (STTP) on “Impact of Artificial Intelligence (AI) And Deep Learning (DL) On Internet of Things (IOT) for Designing Smarter Products – A Hands-on Approach” from 09.11.2020 to 14.11.2020.
 - Contributed as Resource Person in the topic of : Intelligent transport systems” in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Speech, Audio and Image Processing using Deep Learning Techniques: Research issues, Innovation and Applications " from 18/10/2021 to 22/10/2021 at University College of Engineering, Ramanathapuram .

8. Reviewer for Journals:

- i. IEEE transaction on Neural Networks
- ii. IEEE transaction on Wireless Sensor Networks.
- iii. Cambridge university, UK. journal on Navigation.

9. Committee Member:

- Member of Board of Studies at NEC Kovilpatti..
- Member of Board of Studies at Anna University Chennai
- Member of the Doctorial Committee, at Anna University, Chennai.
- Member of the Doctorial Committee, at VIT, Vellore and Chennai.
- Member of the Doctorial Committee, at SRMIST, Chennai.
- Member of the Doctorial Committee, at Sathyabama IST, Chennai.
- Member of the Doctorial Committee, at BSARCIST, Chennai.

10. Administrative Experience:

- i. Residential Tutor at RC, AU, TVL boys hostel.
- ii. Lab construction and maintenance of P.G Lab, RC,TVL,AU.
- iii. Acted as a Vice - Chairman and Chairman of ECE valuation board.
- iv. Placement officer at RC,AU,TVL.
- v. Chief Superintendent of Anna University End semester exams.
- vi. Head of the Dept, at UCEK, Kanchipuram.
- vii. Nodal officer for TN-Scot.

11.Others details:

1. GATE Score of 68.8 in 2012 and 71.8 in 2013

12.Prizes/Medals and others honors received.

- i. District First Rank in S.S.L.C.
- ii. University II Rank in M.Tech. Degree.
- iii. Certificate of appreciation received for producing 100% result during the college day celebrations consequently for six years at SRM-Valliammai Engg College.

13. Projects Guided:

- B.E : 225
- M.E/M.TECH : 75

14. Research Guidance:

- PH.D : 8 Completed :2

15. Specialization:

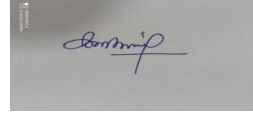
Wireless sensor networks,Communication and Soft computing techniques.

16. Book published:

- Published a book chapter titled “Basic Study on Machine learning for Diagnosis Diseases”, in the book Machine Learning and Applications, Dipti Press (OPC), Pvt. Ltd, Chennai-25, 2020.

I hereby declare that the information given by me is true to best my knowledge and correct.

Place : Kanchipuram

A rectangular box containing a handwritten signature in black ink. The signature is cursive and appears to read 'M. Malleswaran'.

Date : 22-04-22

(M.Malleswaran)