



SRM Valliammai Engineering College


(An Autonomous Institution)

SRM Nagar, Kattankulathur-603203, Chengalpet District, Tamil Nadu.

TEL : 044 - 27454784 / 726, FAX : 044 - 27451504

Department of Electronics and Communication Engineering

Personal Details

Name :	Dr. S. RAMESH		
Designation :	Associate Professor		
Educational Qualification :	B.E., M.Tech., Ph.D.		
Experience:	19 Years 01 Months		
Area of Specialization :	Antennas, RF, Microwave and Optical, Wireless Communications, Wireless Networks		
Date of Joining :	12/06/2006		
Email ID :	rameshs.ece@valliammai.co.in,rameshsvk@gmail.com		
Contact Numbers :	044-27454784		Extn: 8142

Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	Electronics and Communication Engineering	Government College of Engineering, Bargur / University of Madras, Tamil Nadu.	2001
2	M.Tech.	Communication Engineering	Faculty of Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.	2004
3	Ph.D.	Electronics and Communication Engineering	Faculty of Engineering & Technology, SRM University, Chennai, Tamil Nadu.	2015

Professional Society Memberships

1. Indian Society for Technical Education (ISTE) - Life Member -LM60048
2. Institution of Electronics & Telecommunication Engineers (IETE) - Member - M211898
3. IEEE Antennas and Propagation Society- Senior Member - 91146920
4. Broadcast Engineering Society (India) - Life Member - LM2696
5. Society of EMC Engineers (India) (SEMCE-I)-Life Member-1233
6. Computer Society of India (CSI) - Life Member - I1505879
7. International Association of Engineers (IAENG)-Member-162057
8. International Society for Research and Development (ISRDR)-Life Senior Member-SR4105900211

Publication Details

Journals:

- [1] S. Syedakbar, S.Ramesh, V. Ramya "Orthogonally Integrated Hybrid Antenna for Intelligent Transportation Systems", Applied Computational Electromagnetics Society Journal, vol. 36, no. 05, pp. 519-524, May 2021. [Science Citation Index, ISSN No.: 1054-4887, Impact factor: 0.58].
- [2] T. Annalakshmi, S.Ramesh, "Performance and Analysis of UWB Aesthetic Pattern Textile Antenna for WBAN Applications", Applied Computational Electromagnetics Society Journal, vol. 35, no. 12, pp. 1525-1531, December 2020. [Science Citation Index, ISSN No.: 1054-4887, Impact factor: 0.58].
- [3] S. Chitra, S. Ramesh, Beulah Jackson, S. Mohanraj, "Performance enhancement of generalized frequency division multiplexing with RF impairments compensation for efficient 5G wireless access", Elsevier-AEU - International Journal of Electronics and Communications, <https://doi.org/10.1016/j.aeue.2020.153467>, October 2020. [Science Citation Index, ISSN No.: 1434-8411, Impact Factor: 2.924].
- [4] S. Chitra, N. Kumarathan, S. Ramesh, "A novel subspace method for precise carrier frequency offset estimation in multicarrier modulation scheme under multiuser environment", Wiley - International Journal of Communication Systems, pp. 1-16, September 2020. <https://doi.org/10.1002/dac.4608> [Science Citation Index, ISSN No.: 1099-1131, Impact Factor: 1.319].

- [5] K. Kayalvizhi and S. Ramesh, "Design and Analysis of Reactive Load Dipole Antenna using Genetic Algorithm Optimization", *Applied Computational Electromagnetics Society Journal (ACES)*, vol. 35, no. 3, pp. 279-287, March 2020. [Science Citation Index Expanded, ISSN No.: 1054-4887, Impact factor: 0.58].
- [6] Ebenezer Abishek B., Arun Raaza, S. Ramesh, S. Jerritta, and V. Rajendra, "Circularly Polarized Circular Slit Planar Antenna for Vehicular Satellite Applications", *Applied Computational Electromagnetics Society Journal (ACES)*, vol. 34, no. 9, pp. 1340-1345, September 2019. [Science Citation Index Expanded, ISSN No.: 1054-4887, Impact factor: 0.58].
- [7] S. Chitra, N. Kumaratharan, S. Ramesh, "Enhanced Brain Image Retrieval using Carrier Frequency Offset Compensated Orthogonal Frequency Division Multiplexing for Telemedicine Applications", *Wiley - International Journal of Imaging Systems and Technology*, vol. 28, no. 3, pp. 186-195, February 2018. [Science Citation Index, Impact Factor: 1.41].
- [8] Ramesh, S., Rama Rao, T., "Indoor channel characterization studies for V-band gigabit wireless communications using dielectric-loaded exponentially tapered slot antenna", *Cambridge - International Journal of Microwave and Wireless Technologies*, vol. 8, no. 8, pp. 1243-1251, December 2016. [Science Citation Index, Impact Factor: 0.472].
- [9] Ramesh, S., Rama Rao, T., "Millimeter wave dielectric loaded exponentially tapered slot antenna array using substrate integrated waveguide for gigabit wireless communications", *Science Press - Journal of Infrared and Millimeter Waves*, vol. 34, no. 5, pp. 513-519, October 2015. [Science Citation Index Expanded, Impact Factor: 0.295].
- [10] Ramesh, S., Rama Rao, T., "Planar High Gain Dielectric Loaded Exponentially Tapered Slot Antenna for Millimeter Wave Wireless Communications", *Springer - International Journal of Wireless Personal Communications*, vol. 84, no. 4, pp. 3179-3192, October 2015. [Science Citation Index, Impact Factor: 0.653].
- [11] Ramesh, S., Rama Rao, T., "Indoor Radio Link Characterization Studies for Millimeter Wave Wireless Communications Utilizing Dielectric-Loaded Exponentially Tapered Slot Antenna", *Taylor & Francis - Journal of Electromagnetic Waves and Applications*, vol. 29, no. 4, pp. 551- 564, April 2015. [Science Citation Index, Impact Factor: 1.395].
- [12] Ramesh, S., Rama Rao, T., "High Gain Dielectric loaded Exponentially Tapered Slot Antenna Array Based on Substrate Integrated Waveguide for V-Band Wireless Communications", *Elsevier-AEU - International Journal of Electronics and Communications*, vol. 69, no. 1, pp. 48-55, January 2015. [Science Citation Index Expanded, Impact Factor: 0.696].
- [13] Ramesh, S., Rama Rao, T., "High Gain Dielectric loaded Exponentially Tapered Slot Antenna Based on Substrate Integrated Waveguide for V-Band Wireless Communications", *Applied Computational Electromagnetics Society Journal*, vol. 29, no. 11, pp. 870-880, November 2014. [Science Citation Index Expanded, Impact Factor: 1.02].
- [14] A R Rajini, Ebenezer Abishek, S Ramesh, V Rajendran, "Compact Printed Planar Eye Shaped Dipole Antenna for Ultra-Wideband Wireless Applications", *Journal of Applied Science and Engineering*, vol. 25, no. 5, pp. 761-766, December 2021. [Scopus Indexed, ISSN No.: 2708-9967, SNIP: N/A, SJR: N/A].
- [15] Kumaran, N., Ramesh, S., "Analysis on hybrid beamforming for 5G energy efficient communications", *Journal of Green Engineering*, vol. 10, no. 11, pp. 11352-11359, November 2020. [Scopus Indexed, ISSN No.: 1904-4720, SNIP: 0.330, SJR: 0.194].
- [16] K. Sasikala, D. Ravikumar, Kishore Ragunath S, M. Karthikeyan, S. Ramesh, Sajeevram Arumugam, "Precision Agricultural System for Crops Water Management using IoT", *Journal of Xidian University*, vol. 14, no. 8, pp. 359 – 364, August 2020. [Scopus Indexed, ISSN No.: 1001-2400, SNIP: 0.307, SJR: 0.183].
- [17] D. Ravikumar, M. Jeyashree, C. Vignesh, S. Ramesh, B. Ebenezer Abishek, V. Devi, "Non-Radiating Edges Gap Coupled Microstrip Antenna for Wireless Body Area Communications", *International Journal of Advanced Science and Technology*, vol. 29, no. 3, pp. 9596 – 9603, July 2020. [Scopus Indexed, ISSN No.: 2005-4238, SNIP: 0.085, SJR: 0.108].
- [18] M. Haran, G. Dilip Kumar, A. Ferris Garvin, S. Ramesh, "Hexagonal Microstrip Patch Antenna for Early Stage Skin Cancer Identification", *International Journal of Telecommunications and Radio Engineering*, vol. 79, no. 7, pp. 555-566, June 2020. [Scopus Indexed, ISSN No.: 0040-2508, SNIP: 0.20, SJR: 0.202].
- [19] Birundha. R, Ramesh. S, "Wide-Band Linear Tapered Slot Antenna with High Gain for Sub 6 GHz Wireless Communication", *Journal of Computational and Theoretical Nanoscience*, vol. 17, no. 4, pp. 1916-1919, April 2020. [Scopus Indexed, ISSN No.: 1546-1955, SNIP: 0.27, SJR: 0.155].
- [20] J. Jayalakshmi, S. Ramesh, "Compact Fractal wearable Antenna for Wireless Body Area Communications", *International Journal of Telecommunications and Radio Engineering*, vol. 79, no. 1, pp. 71-80, February 2020. [Scopus Indexed, ISSN No.: 0040-2508, SNIP: 0.20, SJR: 0.202].

- [21] M. Vanitha, S. Ramesh, & S. Chitra, "Wearable Antennas for Remote Health Care Monitoring System Using 5G Wireless Technologies", *International Journal of Telecommunications and Radio Engineering*, vol. 78, no. 14, pp. 1275-1285, November 2019. [Scopus Indexed, ISSN No.: 0040-2508, SNIP: 0.20, SJR: 0.202].
- [22] T. Annalakshmi, S. Ramesh, "Compact SIW Based Planar Inverted F Antenna", *International Journal of Engineering and Technology*, vol. 7, no. 3, pp. 194-196, August 2018. [Scopus Indexed, ISSN No.: 2227-524X, SNIP: 0.086, SJR: 0.102].
- [23] Namrutha. U, Arun Raaza, S. Ramesh, "Conformal Antenna for Aerodynamic Drag Reduction in Airborne System", *International Journal of Engineering and Technology*, vol. 7, no. 3, pp. 66-69, August 2018. [Scopus Indexed, ISSN No.: 2227-524X, SNIP: 0.086, SJR: 0.102].
- [24] V. Satheesh Kumar, S. Ramesh, "LCP Based Planar High Q Embedded Band Pass Filter for Wireless Applications", *Journal of Mobile Multimedia*, vol. 14, no. 3, pp. 307-318, July 2018. [Scopus Indexed, ISSN No.: 1550-4646, SNIP: 0.338, SJR: 0.112].
- [25] Bharathi. B, Bhuwaneshwari. K, Carmel vicy. G, Chithra. A, Ramesh. S, "Compact Slot Loaded Dipole Antenna For Intracranial Hemorrhage Detection", *International Journal of Applied Engineering Research*, vol. 13, no. 10, pp. 7704-7710, May 2018. [Scopus Indexed, ISSN No.: 0973-4562, SNIP: 0.484, SJR: 0.199].
- [26] T. Annalakshmi, S. Ramesh, "Curved Edge Patch Antenna with Circular Slot for UWB Applications", *Journal of Advanced Research in Dynamical and Control Systems*, vol. 10, no. 02, pp. 741-746, April 2018. [Scopus Indexed, ISSN No.: 1943-023X, SNIP: 0.135, SJR: 0.114].
- [27] Assa Raj, M., Ramesh, S., "UWB MIMO Antenna for Interference Reduction in Wireless Communications", *International Journal of Telecommunications and Radio Engineering*, vol. 76, no. 15, pp. 1307-1322, August 2017. [Scopus Indexed, ISSN No.: 0040-2508, SNIP: 0.590, SJR: 0.211].
- [28] Ravikumar, S., Chandrasekaran, S., Ramesh, S., "Safety Assessment of Distributed Automotive Software System Model with Design for Traceability", *Asian Journal of Information Technology*, vol. 15, no. 11, pp. 1799-1815, April 2016. [Scopus Index, ISSN No.: 1682-3915, SNIP: 0.03, SJR: 0.11].
- [29] Jai Padma, S., Ramesh, S., "Design and Development of a Dual Loop Penta-Band Antenna for Wireless Communications", *International Journal of Applied Engineering Research*, vol. 10, no. 87, pp. 180-184, December 2015. [Scopus Indexed, ISSN No.: 0973-4562, SNIP: 0.01, SJR: 0.13].
- [30] Manobala, P. K., Ramesh, S., "Analysis of Energy Efficient Transmission in Underlay MIMO Cognitive Radio Network", *International Journal of Applied Engineering Research*, vol. 10, no. 87, pp. 175-179, December 2015. [Scopus Indexed, ISSN No.: 0973-4562, SNIP: 0.01, SJR: 0.13].
- [31] Indu Nikhil, Ramesh, S., "Joint out of Band Radiation Suppression and PAPR Reduction for NC-OFDM Based Cognitive Radio Systems", *International Journal of Applied Engineering Research*, vol. 10, no. 66, pp. 6-13, July 2015. [Scopus Indexed, ISSN No.: 0973-4562, SNIP: 0.01, SJR: 0.13].
- [32] Vidhya, M., Ramesh, S., "Design and Development of Antipodal Linearly Tapered Slot Antenna Using Substrate Integrated Technology for Wireless Communications," *International Journal of Applied Engineering Research*, vol. 10, no. 63, pp. 196-199, May 2015. [Scopus Indexed, ISSN No.: 0973-4562, SNIP: 0.01, SJR: 0.13].
- [33] Ramesh, S., Rao, T. R., "Dielectric Loaded Exponentially Tapered Slot Antenna Utilizing Substrate Integrated Waveguide Technology for Millimeter Wave Applications", *Progress In Electromagnetics Research C*, vol. 42, pp. 149-164, August 2013. [Scopus Indexed, ISSN No.: 1937-8718, SNIP: 0.738, SJR: 0.475].
- [34] Ramesh, S., Rao, T. R., "Dielectric Loaded Exponentially Tapered Slot Antenna for Wireless Communications at 60 GHz", *Progress In Electromagnetics Research C*, vol. 38, pp. 43-54, March 2013. [Scopus Indexed, ISSN No.: 1937-8718, SNIP: 0.738, SJR: 0.475].
- [35] L. Dhana Lakshmi, C.S. Arshiya, A. Harikaran, S. Ramesh, "Compact Ultra-Wideband Monopole Antenna for 5G Wireless Communication Systems", *International Journal of Advanced Development in Science and Technology*, vol. 2, no. 3, pp. 7-13, May 2020, ISSN No.: 2582-1059.
- [36] Haran M., Ramesh. S, "Hexagonal Microstrip Patch Antenna for Biomedical Applications", *i-manager's Journal on Communication Engineering and Systems*, vol. 8, no. 2, pp. 7-13, April 2019, ISSN No.: 2277-5102.
- [37] Manobala, P. K., Ramesh, S., "Energy Efficient Communication in Underlay MIMO Cognitive Radio Network", *International Journal of Research and Reviews in Applied Sciences And Engineering*, vol. 8, no. 1, pp. 63-67, April 2016, ISSN No.: 2231-0061.
- [38] Jai Padma, S., Ramesh, S., "Design and Development of a Dual Loop Hepta-Band Antenna for Wireless Communications", *International Journal of Research and Reviews in Applied Sciences And Engineering*, vol. 8, no. 1, pp. 51-57, April 2016, ISSN No.: 2231-0061.

Conferences:

- [1] M.Haran, A.FerrisGarvin, G.DilipKumar, S. Ramesh, "Hexagonal Micro strip Patch Antenna For Early Stage Skin Cancer Identification", International Conference on Computer Communication and Power Systems – 2020, Sri Venkateswaraa College of Technology, Chennai, pp.222-226, May 2020.
- [2] J. Jayalakshmi, S. Ramesh, "Compact Fractal wearable Antenna with Defected Ground Structure for Wireless Body Area Communications", International Conference on Computer Communication and Power Systems – 2020, Sri Venkateswaraa College of Technology, Chennai, pp.227-231, May 2020.
- [3] N. Kumaran, S. Ramesh, "An analysis on Hybrid Beamforming for 5G Wireless Communications", International Conference on Computer Communication and Power Systems – 2020, Sri Venkateswaraa College of Technology, Chennai, pp.241-244, May 2020.
- [4] C.S.Arshiya, L.Dhanalakshmi, A.Harikaran, S. Ramesh, "Compact Ultra-Wideband Monopole Antenna For 5G Wireless Communications", International Conference on Computer Communication and Power Systems – 2020, Sri Venkateswaraa College of Technology, Chennai, pp.245-248, May 2020.
- [5] Haran M., Ramesh. S, "Hexagonal Microstrip Patch Antenna for Biomedical Applications", International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering-ICSA 2K19, SRM Valliammai Engineering College, Chennai, pp. 116-119, September 2019, ISBN 978-81-933978-4-8.
- [6] K. Kayalvizhi, S. Ramesh, "A Broadband LR Loaded Dipole Antenna for Wireless Communication", International Conference on Emerging Current Trends in Computing and Expert Technology (COMET 2K19), Panimalar Engineering College, Chennai, pp. 201-206, March 2019.
- [7] M. Vanitha, S. Ramesh, "Wearable Antennas for Human Physiological Signal Measurements", International Conference on Emerging Current Trends in Computing and Expert Technology (COMET 2K19), Panimalar Engineering College, Chennai, pp. 218-223, March 2019.
- [8] G. Renuga, R. Rithesh Salunke, R. Sangavi, S. Ramesh, "Miniaturization of a PIFA Antenna for Biomedical Application using Artificial Neural Networks", International Conference on Electrical, Communication and Computing (ICECC 2019), Tagore Engineering College, Chennai, pp. 55, March 2019, ISBN: 978-93-81208-98-4.
- [9] K. Anija, K. Deepika, B. Gomatheeswari, S. Ramesh, "Split Triangular Antenna for 5G Wireless Communications", International Conference on Electrical, Communication and Computing (ICECC 2019), Tagore Engineering College, Chennai, pp. 56, March 2019, ISBN: 978-93-81208-98-4.
- [10] M. Vanitha, S. Ramesh, "Wearable Smart Antennas for Health Care Applications", International Conference on Sustainable Engineering, Technology & Management, Linton University College, Mantin, Malaysia, pp. 24-30, December 2018.
- [11] S. Syedakbar, S. Ramesh, Ramya Vijay, "Antipodal Elliptical Tapered Slot Antenna for Millimeter Wave Communications", International IEEE-INAE Workshop on Electromagnetics (IIWE 2018), Trivandrum Kerala, pp. IIWE30,37, December 2018.
- [12] M. Vanitha, S. Ramesh, "Wearable Antenna on Textile Material", International Conference on Smart Structures and Systems-ICSSS'18, Saveetha Engineering College, Chennai, pp. 37-42, October 2018.
- [13] R. Birundha, S. Ramesh, "Linear Tapered Slot Antenna for Sub 6 GHz Wireless Communication", International Conference on Smart Structures and Systems-ICSSS'18, Saveetha Engineering College, Chennai, pp. 58-60, October 2018.
- [14] K. Kayalvizhi, S. Ramesh, "Analysis of RL Loaded Dipole Antenna using Genetic Algorithm for Wireless Communication", International Conference on Smart Structures and Systems-ICSSS'18, Saveetha Engineering College, Chennai, pp. 60-65, October 2018.
- [15] B.Bharathi, G.Carmel vicy, K.Bhuvanewari, A.Chithra, S.Ramesh, "Design Of Compact Slot-Loaded Folded Dipole Antenna For Wide Band Head Imaging System", International Conference on Innovation in Science and Engineering Research (ICISER'18), March 2018, New Prince Shri Bhavani College Of Engineering And Technology, Chennai, TN. pp. 26-27.
- [16] Ragupathy.M, Revanth.S, Sundarlingam.A, Sonu.M, S.Ramesh, "Intelligent Anti-Theft System For Two Wheelers", International Conference on Innovation in Science and Engineering Research (ICISER'18), March 2018, New Prince Shri Bhavani College Of Engineering And Technology, Chennai, TN. pp. 35.
- [17] V. Sathesh Kumar, S. Ramesh, "LCP Based Planar High Q Embedded Band Pass Filter for Wireless Applications", 30th GISFI Standardisation Series Meeting and IEEE 5G Summit, 16-17 November 2017, SRM University, Kattankulathur, Chennai, TN. vol. no.7, pp.1-4, eISBN:978-93-84136-11-6.
- [18] S. Syedakbar, S. Ramesh, J. Deepa, "Ultra wide band monopole planar MIMO antenna for portable devices", IEEE Sponsored International conference on Electrical, Instrumentation & Communication Engineering, M. Kumarasamy College of Engg., Karur, TN, April 27-28 2017, pp. 48-50, Published in IEEE Xplore, doi: 10.1109/ICEICE.2017.8191961./ISBN: 978-1-5090-4996-7.

- [19] Kayalvizhi, K., Ramesh, S., "Penta Band Slot Antenna for Wireless Communications", International conference on Engineering, Energy & Environment (ICEEE) 2017, pp. 176-181, March 2017, TRP Engineering College, Trichy.
- [20] Annalakshmi, T., Ramesh, S., "Design and development of Planar Inverted F Antenna for mobile application", International conference on Newer Engineering Concepts and Technology-2K17 (iConnect2K17), March 2017, K. Ramakrishnan College of Technology, Trichy.
- [21] Satheesh Kumar V, K., Ramesh, S., "LCP Based High Q Embedded Band Pass Filter For Wireless Communication Application", International conference on Newer Engineering Concepts and Technology-2K17 (iConnect2K17), March 2017, K. Ramakrishnan College of Technology, Trichy.
- [22] Kayalvizhi, K., Ramesh, S., "A High-Efficiency Broadband Rectenna for Wireless Energy Harvesting", International conference on Newer Engineering Concepts and Technology -2K17 (iConnect2K17), March 2017, K. Ramakrishnan College of Technology, Trichy.
- [23] Ramprakash, P. K., Varshnie, G., Princee Mary, A. F., Ramesh, S., "Circular-Shaped Balanced Inverted-A Antenna for Bio-Medical Applications", International conference on Newer Engineering Concepts and Technology -2K17 (iConnect2K17), March 2017, K. Ramakrishnan College of Technology, Trichy.
- [24] Raakesh Raja, K. R., Sambhavi Singh, Saravanan, B., Sripathiraj, K. K., Ramesh, S., "A Triple Band Printed Monopole Antenna for Wireless Applications", Fifth international conference on contemporary engineering and technology 2017 (ICCET 2017), pp. 1-3, March 2017, Madha Engineering College, Chennai, ISBN 978-81-904760-9-6.
- [25] Syed Akbar, S., Ramesh, S., "A Novel Hexa-triangle Dual-Band Antenna", Proceedings of IEEE Sponsored 3rd International Conference on Electronics and Communication System (ICECS 2016), pp.1416-1418, 25-26 February 2016, ISBN: 978-1-4673-7832-1/16, Published in IEEE Digital Xplore.
- [26] Indu Nikhil, Ramesh, S., "ICI mitigation for Pilot Aided OFDM system over High Mobility Fading Channels", Proceedings of IEEE Sponsored 2nd International Conference On Electronics And Communication System (ICECS 2015), pp.508-511, 26-27 February 2015, doi:10.1109/ECS.2015.7124958.
- [27] Sudharsan, J., Ramesh, S., "Design and Simulation of Dense Dielectric Patch Antenna for Wireless Applications," Proceedings of Third IEEE International Conference on Communication & signal Processing (ICCSP 2014), pp. 490-492, 3-5 April 2014, doi: 10.1109/ICCSP.2014.6949890.
- [28] Vidhya, M., Ramesh, S., "Design and Development of Antipodal Linearly Tapered Slot Antenna Using Substrate Integrated Technology for Wireless Communications," Proceedings of International Conference on Computational Systems in Engineering & Technology (ICCSET 2014), pp. 100-103, 7-8 March 2014, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, ISBN: 978-1-4799-3814-8/14.
- [29] Ramesh, S., Rama Rao, T., "Dielectric Loaded Exponentially Tapered Slot Antenna for 60 GHz Wireless Networks," Proceedings of Second IEEE International Conference on Communication and Signal Processing (IEEE ICCSP'13), pp. 703-707, 3-5 April 2013, doi:10.1109/iccsp.2013.6577146.
- [30] Ramesh, S., Rama Rao, T., "Exponentially Tapered Slot Antenna for Giga-Bit Wireless Communications at 60 GHz," Proceedings of Pearl Jubilee International Conference on Navigation and Communication (NAVCOM 2012), Hyderabad, pp. 215-218, 20-21 December 2012.
- [31] Rama Rao, T., Ramesh, S., "Microstrip, Slotted Rectangular Waveguide Array and Patch-Fed Rod Antenna Design and Simulation for Gigabit Wireless Communication at 60 GHz," Proceedings of Third International Conference on Computing Communication and Networking Technologies (ICCCNT 2012), pp. 1-5, 26-28 July 2012, doi: 10.1109/ICCCNT.2012.6395945.
- [32] Rama Rao, T., Balachander, D., Murugesan, D., Ramesh, S., Prasad, M.V.S.N., "Near Ground/Floor RF Path Gain Measurements in Indoor Corridors at 2400 MHz for Wireless Sensor Communications," Procedia Engineering, Elsevier, 30, pp. 836-843, 2012.
- [33] Rama Rao, T., Murugesan, D., Ramesh, S., Labay, V. A., "RF Transceiver Design and Simulation for Indoor Wireless Applications," Proceedings of 5th IEEE International Conference on Advanced Networks and Telecommunication Systems (IEEE ANTS 2011), pp. 1- 5, 18-21 December 2011, doi: 10.1109/ANTS.2011.6163655.
- [34] Rama Rao, T., Murugesan, D., Ramesh, S., "60 GHz Radio Channel Characteristics in an Indoor Environment for Home Entertainment Networks," Proceedings of International Conference on Recent Advances in information Technology & Mobile Communication (AIM 2011), SpringerLink, Communications in Computer and Information Science, 147(1), pp. 61- 66, 2011, doi: 10.1007/978-3-642-20573-6.
- [35] M. Vanitha, S. Ramesh, "Wearable Antennas for Human Physiological Signal Measurements Using 5G Technology", National Conference on Microwave and Millimeterwave Communication (NCMMC-2019), Valliammai Engineering College, Chennai, pp. 55-65, March 2019.

- [36]J. Jayalakshmi, S. Ramesh, “Review on Recent Trends in Radio Frequency Identification Antennas for Wireless Body-Area Applications”, National Conference on Microwave and Millimeterwave Communication (NCMMC-2019), Valliammai Engineering College, Chennai, pp. 1-7, March 2019.
- [37]T. Annalakshmi, S.Ramesh, “Design and development of Planar Inverted F Antenna Using SIW”, National conference on VLSI, Embedded, Nano & Telecommunication – VENT’18, March 2018, Saveetha Institute of Medical And Technical Sciences, Chennai, TN. pp. 1-4.
- [38]Manobala, P.K., Ramesh, S., “Analysis of Energy Efficient Communication in MIMO Cognitive Radio Network”, National Conference on Research Challenges in VLSI Design and Embedded Systems for Wireless Communications (RCVEWC 2016), pp. 110-112, June 2016, SSN College of Engineering, Chennai.
- [39] Jai Padma, S., Ramesh, S., “Design and SAR Reduction of Hepta-Band Multiband Antenna Using RF Shields for Wireless Applications”, National Conference on Research Challenges in VLSI Design and Embedded Systems for Wireless Communications (RCVEWC 2016), pp. 1-6, June 2016, SSN College of Engineering, Chennai.
- [40]Anupriya, A., Ramesh, S., Rama Rao, T., “Design and Simulation of Pyramidal & Sectoral Horn Antennas for Millimeter Wave Communications,” Proceedings of National Conference on Microwave & Optical Communication (NCMOC 2012), pp. 55-58, 2 April 2012.
- [41] Rama Rao, T., Murugesan, D., Ramesh, S., “60 GHz Radio Channel Characteristics in an Indoor Environment,” Proceedings of National Conference on Microwave & Optical Communication (NCMOC 2011), pp. 231-235, 30 March 2011.
- [42] Ramesh, S., Rama Rao, T., “Pin-Fed Pyramidal Horn MmWave Antenna for Home Entertainment Wireless Systems,” Proceedings of National Conference on Emerging trends in VLSI, Embedded and Nano Technologies (NC Event), pp. 32-38, 27 -28 January 2011.

Chapters:

- 1.R. Ohmsakthi Vel, B. Kannan, S. Ramesh, M.Tamilselvi, “ Robotics”, Technical Research Publications - Emerging Technologies in Engineering Research, Chapter-6, pp. 1-9, October 2020, eBook ISBN: 978-93-5419-211-1.
- 2.Annalakshmi T., Ramesh S., Swetha Lakshmi M., “A Tree-Shaped Wearable Conductive Fabric Patch Antenna for ISM Band Applications”, Springer – Advances in Smart System Technologies. Advances in Intelligent Systems and Computing, vol. 1163, pp. 293-301, September 2020, eBook ISBN 978-981-15-5028-7, DOI: 10.1007/978-981-15-5029-4_24.
3. M. Vanitha, S. Ramesh, “Wearable Antennas for Human Physiological Signal Measurements”, Springer – Lecture notes on Data Engineering and Communication Technologies, vol. 35, pp. 1441-1451, December 2019, eBook ISBN 978-3-030-32150-5, DOI 10.1007/978-3-030-32150-5.
4. K.Kayalvizhi, S. Ramesh, “A Boradband LR Loaded Dipole Antenna for Wireless Communication”, Springer – Lecture notes on Data Engineering and Communication Technologies, vol. 35, pp. 1415-1426, December 2019, eBook ISBN 978-3-030-32150-5, DOI 10.1007/978-3-030-32150-5.

Research and Development Details

1. No. of Research Projects Completed: 01

Established High Frequency System Lab in the department for DST-FIST 2018 (Fund for Improvement of S&T Infrastructure in Higher Educational Institutions) scheme.

2. No. of Patents Filed and Granted: 02

1. Title of Invention: Design and Implementation of a Disaster Management System using IoT and Cloud Computing Techniques for a Connected Buildings to Save Lives with Early Warnings, Name of inventor(s): C.T. Manimegalai; R. Raju; S. Ramesh; N. Vijayalakshmi; Swaminathan, Arulnanthisivam; K. Sakthidasan @ Sankaran; K. S. R. Radhika; E. Dhiravidachelvi; Chandrakant Dhage, Pradeepkumar; Warhade, Krishna K.; Term of Patent: Eight years from 18 August 2020. Patent number: 2020101867. (Australia)

2. Title of Invention: Wireless Mesh Networks Lifetime Maximization for Machine to Machine Communication, Applicant Name: Dr. S. Anbu Karuppusamy, Dr. P. Sivakumar, Dr. M. Shoukath Ali, Dr. M. Senthil Kumar, Dr. S. Ramesh, S. Murugaveni, B. Priyalakshmi, Application number: 201941052842, Date of Filing: 19.12.2019, Application status: Published. (India)

3. No. of Ph.D candidates guided/guiding: 08

• Centre for Research, Anna University, Chennai recognized as a Supervisor (Ref. No: 2640004) for guiding Ph.D. and M.S.(By Research) scholars of this university under the Faculty of Information & Communication Engineering in the field of Antennas, RF & Microwave, Wireless Communication and Wireless Networks.

S.No	Name of the Scholar	Field of Research	Category
1	Mr. Prasanan. V	Antenna	Part-time
2	Mr. Dhananjeyan.R	Antenna	Part-time

3	Mr. Kumaran.N	Antenna	Full-time
4	Mr. Viwin Singh.Y	Antenna	Full-time
5	Ms. Kayalvizhi.K	Antenna	Full-time
6	Ms. Annalakshmi.T	Antenna	Part-time
7	Mr. Syedakbar.S	Antenna	Part-time
8	Mr. Satheeshkumar.V	Filters	Part-time

4. No of Conferences Convened:03

Other Particulars

1. No. of Books Published: Nil

2. No. of STTP/FDP coordinated: 2

Sr. No	Title	Place	Date
1	ISTE-SRM University sponsored Short Term Training Programme (STTP) on "RF Engineering for Wireless Networks"	Valliammai Engineering College	06.05.2013-11.05.2013
2	Anna University sponsored Faculty Development Training Programme (FOTP) on "EC2253- Electromagnetic Fields"	Valliammai Engineering College	28.11.2011-04.12.2011

3. Consultancy/MoU works:

Research Collaboration with Department of Electrical Engineering, Faculty of Engineering and the Built Environment, Tshwane University of Technology, eMalahleni Campus, South Africa.

4.Regular reviewer for articles from IEEE Microwave and Wireless Components Letters, IEEE Access, IET Microwaves, Antennas & Propagation, IET Electronics letters, Elsevier – AEU International Journal of Electronics & Communication, The Applied Computational Electromagnetics Society, and Progress in Electromagnetic Research in the field of antennas.

5.Reviewed book chapters for Kraus- Antennas and Wave Propagation, 5e manuscript in McGraw Hill Education India.

6.We have won the best project award in state level category (ESIC 2014) organized by International Society for Scientific Research and Development (ISSRD) in the title "Intelligent Nurse Aiding Humanoid".

7.Received Best Paper Award in International Conference on Smart Structures and Systems-ICSSS'18, Saveetha Engineering College, Chennai paper titled on "Wearable Antenna on Textile Material" during October 2018.

8.Received "ISTE Best Chapter Chairman Award for Engineering College" award during the 19th ISTE TN section students Convention-2019 held at PSG Institute of Technology and Applied Research, Coimbatore on 18.12.2019.

9. Received ISTE TN Section awarded Appreciation award during March 2018 & ISTE TN Section Awarded "Best ISTE Student Chapter Award" during April 2018.

10. Executive committee member in IEEE AP-S Madras Chapter during 2018-2019 & IEEE MTT-S Madras Chapter during 2017.

11.Citation Indices:

Reference: <https://scholar.google.co.in/citations?user=Yh5CL0QAAAAJ&hl=en> &

https://www.researchgate.net/profile/Ramesh_S5

Identifiers: Web of Science Researcher ID: AAB-1273-2019 & ORCID 0000-0002-2946-5296.