CURRICULUM VITAE

1. Personal Information

(i)	Name	Dr. Leeladhar (L. D.) Malviya
(ii)	Qualification	Ph.D (RF and MW)
(iii)	Designation	Professor
(iv)	Email-id	ldmalviya@gmail.com
(v)	Employee No.	0400261
(Vi)	Department	Electronics and Telecommunication Engineering
(vii)	Experience	23 years

2. Educational Qualification

S. No.	Degree	Specialization	Year	University/Board
01	Ph.D	RF and Microwave (Electronics and Communication)	2017	Indian Institute of Technology Roorkee, Roorkee (U.K.)
02	ME	Electronics and Telecommunication Engineering	2008	RGPV BHOPAL/ S.G.S.I.T.S., Indore (M.P.)
03	BE	Electronics Engineering	1998	Vikram University/GEC Ujjain (M.P.)

3. Research Interests

MIMO antenna designs, UWB, 4G, 5G, and THz antenna and Array designs, Wireless communication, Beamforming, Massive MIMO.

4. Research Paper Publications

(I) International/National Journal Publications

1. Mohit Pant, and **Leeladhar Malviya**, "A Compact multilayer MIMO antenna array using CSRR and AMC for 5G applications," International Journal of Microwave and Wireless Technologies (IJMWT), pp. 1-16, 2022 (**Accepted for SCI publication**).
2. Rashmi Pant, and **Leeladhar Malviya**, "THz antennas design, developments, challenges, and applications: a review" International Journal of Communication Systems (IJCS), pp. 1-33, 2022 (**Accepted for publication:SCI**).

3. Mantar Singh Mandloi, Parul Gupta, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, ‘‘Beamforming MIMO array antenna for 5G millimetre wave application," Wireless Personal Communications, 10.1007/s11277-022-10090-9, pp. 1-20, October 2022 **(SCI).**
4. Mohit Pant, and **Leeladhar Malviya**, “Design, developments, and applications of 5G antennas: a review,” International Journal of Microwave and Wireless Technologies (IJMWT), pp. 1-53, 2022 (**SCI**).
5. **Leeladhar Malviya**, M. P. S. Chawla, and Ajay Verma, “Present to future antennas for wireless communication: A review”, International Journal of Innovative Science and Modern Engineering (IJISME), ISSN: 2319-6386, vol. 7, issue 1, February 2021 (**National**).
6. Sanjay Chouhan, and **Leeladhar Malviya**, ‘‘Multi-element wideband planar antenna for wireless applications," Wireless Personal Communications, 10.1007/s11277-021-08068-0, pp. 1-13, May 2021 **(SCI).**
7. **Leeladhar Malviya**, and Parul Gupta, ‘‘Millimeter wave high gain antenna array for wireless applications," IETE Journal of Research (Taylor and Francis), DOI: 10.1080/03772063.2021.1903346, pp. 1-10, March 2021 (**SCI**).
8. Leevanshi Rao, Mohit Pant, **Leeladhar Malviya**, Ajay Parmar, and S. V. Charhate, ‘‘Beamforming techniques for the coverage of intended directions in modern wireless communication: In-depth review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI:10.1017/S1759078720001622, pp. 1039-1062, vol. 13, issue 10, December 2020 (**SCI**).
9. **Leeladhar Malviya**, Deepak Solanki, Parul Gupta, and Ajay Parmar, Priyanshi Malviya, “Highly isolated inset-feed 28 GHz MIMO-antenna array for 5G wireless application,” CoCoNet (CIAP) 2019/Procedia Computer Science (Elsevier (2020)), DOI: 10.1016/j.procs.2020.04.137, issue 171, pp. 1286-1292, June 2020 **(Scopus).**
10. Sanjay Chouhan, and **Leeladhar Malviya**, ‘‘Four port shared rectangular radiator with defected ground for wireless application," International Journal of Communication Systems, DOI: 10.1002/dac.4356, pp. 1-8, March 2020 **(SCI).**
11. Rohit Yadav, and **Leeladhar Malviya**, “UWB antenna and MIMO antennas with bandwidth, band-notched, and isolation properties for high-speed data rate wireless communication: A review,” International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.22033, pp. 1-25, November, 2019 **(SCI).**
12. Parul Gupta, **Leeladhar Malviya**, and S. V. Charhate, ‘‘5G multi-element/port antenna design for wireless applications: A Review," International Journal of Microwave and Wireless Technologies (IJMWT), DOI: 10.1017/S1759078719000382, vol. 11, issue 9, pp. 918-938, November 2019 **(SCI).**
13. Sanjay Chouhan, and **Leeladhar Malviya**, ‘‘Two element folded meander line MIMO antenna for Wireless applications," Electronics Journal, DOI: *10.7251/ELS1923011C*, vol. 23, no. 1, pp. 11-17, June 2019 **(SCI).**
14. **Leeladhar Malviya**, and Sanjay Chouhan, ‘‘Multi-cut 4 port shared radiator with stepped ground and diversity effects for WLAN application," International Journal of Microwave and Wireless Technologies (IJMWT), DOI: 10.1017/S1759078719000680, pp. 1044-1053, May 2019 **(SCI).**
15. **Leeladhar Malviya**, M. V. Kartikeyan, and Rajib K. Panigrahi, ‘‘Multi-standard, multi-band planar MIMO antenna with diversity effects for wireless applications," International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.21551, vol. 29, issue 2, pp. 1-8, September 2018 **(SCI).**
16. Ritesh Kumar Kushwaha, P. Karrupanan, **L. D. Malviya**, “Design and analysis of novel microstrip patch antenna on photonic crystal in THz,” Physica B: Physics of Condensed Matter, Elsevier, DOI: 10.1016/j.physb.2018.05.045, vol. 545, issue 2018, pp. 107-112, May 2018 **(SCI).**
17. **Leeladhar Malviya**, M. V. Kartikeyan, and Rajib K. Panigrahi, ‘‘Offset planar MIMO antenna for omnidirectional radiation patterns," International Journal of RF and Microwave Computer Aided Engineering, DOI: 10.1002/mmce.21274, vol. 28, issue 6, pp. 1-9, February 2018 **(SCI).**
18. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ‘‘Four element planar MIMO antenna design for long term evolution operation," IETE Journal of Research (Taylor and Francis), DOI: 10.1080/03772063.2017.1355755, vol. 64, no. 3, pp. 367-373, August 2017 **(SCI).**
19. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ‘‘MIMO antennas with diversity and mutual coupling reduction techniques: A Review," International Journal of Microwave and Wireless

Technologies (IJMWT), DOI:10.1017/S1759078717000538, vol. 9, no. 8, pp. 1763-1780, May 2017 **(SCI).**

20. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''A low profile planar MIMO antenna with polarization diversity for LTE1800/1900 applications," Microwave and Optical Technology Letters (MOTL), DOI:10.1002/mop.30329, vol. 59, issue 3, pp. 533-538, March 2017 **(SCI).**
21. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''Circularly polarized 2x2 MIMO antenna for WLAN applications," Progress in Electromagnetics Research C, DOI: 10.2528/PIERC16051905, vol. 66, pp. 97-107, July 2016 **(Scopus)**
22. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''A multi-standard, wide-band 2x2 compact MIMO antenna with ground modification techniques," International Journal of Microwave and Optical Technology (IJMOT), vol. 11, No. 4, pp. 259-267, July 2016 **(Scopus).**
23. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''A 2x2 Dualband MIMO antenna with polarization diversity for wireless applications," Progress in Electromagnetics Research C, DOI: 10.2528/PIERC15110401, vol. 61, pp. 91-103, January 2016 **(Scopus).**
24. Gourav Banchhodiya, and **L. D. Malviya**, "Analysis of feed techniques on the performance of dual broadband MIMO antenna system," ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE), ISSN:2320-8945, vol. 1, Issue 5, pp. 108-114, 2013.
25. Nikhil Tiwari, Deepak Gyanchandani, Anjulata Yadav, and **L.D. Malviya**, "Factors affecting sleep mode operation in WiMAX networks," Advances in Electronic and Electric Engineering, ISSN 2231-1297, vol. 3, No. 3, pp. 373-382, 2013.
26. Minakshi Halder, **L. D. Malviya**, and Rekha Jain, "Mobile adhoc network under the adaptive TCP variants techniques for maximization of throughput," International journal of Computer Applications, DOI: 10.5120/8974-3116, vol. 56, no. 16, pp. 12-17, October 2012.
27. Alok Pandey, **L. D. Malviya**, Vineet Sharma, "Comparative study of LMS and NLMS algorithms in adaptive equalizer," International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com, vol. 2, issue 3, pp.1584-1587, May-Jun 2012.
28. S.V. Charhate, **L. D. Malviya**, Shambhu kr Suman, "Performance comparison of LMS, NLMS and RLS algorithms for adaptive equalizer," International Journal of Advanced Electronics & Communication Systems, vol. 1, issue 1, Paper ID A29, February 2012.
29. Rohit Yadav, Ranbeer Tyagi, **L. D. Malviya**, "Low magnitude edge detection algorithm," International journal of Computer Applications, DOI: 10.5120/2863-3691, vol. 23, pp. 16-19, June 2011.

(II) International/National Conference Publications

1. Sneha Moghe, and **Leeladhar Malviya**, "Inverted C shaped THz array antenna for wireless body area network applications", Microwaves, Antennas, and Propagation Conference (MAPCON)-2022, Banglore, India, pp. 1-5, 12^{th} – 16^{th} December, 2022 **(Presented)**.
2. Sanjay Chouhan, and **Leeladhar Malviya**, "Stepped patch antenna for GSM applications", 11^{th} International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.14, pp. 72-75, 23^{rd} – 24^{th} April, 2022.
3. Sneha Moghe, Rohit Yadav, and **Leeladhar Malviya**, "Sub-THz high efficiency MIMO antenna for short range wireless communication", 11^{th} International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.13, pp. 66-71, 23^{rd} – 24^{th} April, 2022.
4. Mantar Singh Mandloi, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, "Design of dual-band MIMO antenna with inverted L-shaped arms for 5G applications", 11^{th} International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.12, pp. 60-65, 23^{rd} – 24^{th} April, 2022.
5. Shubham Mohker, Ajay Parmar, Amit Naik, and **Leeladhar Malviya**, "Design of bandstop filter using double dumbbell shaped CSRR in ground", 11^{th} International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.11, pp. 54-59, 23^{rd} – 24^{th} April, 2022.
6. Sneha Moghe, Rohit Yadav, and **Leeladhar Malviya**, "Sub-terahertz MIMO array antenna for future wireless applications", 11^{th} International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.10, pp. 49-53, 23^{rd} – 24^{th} April, 2022.

7. Mohit Pant, and **Leeladhar Malviya**, "Fifth generation MIMO antenna array with diversity and mutual coupling reduction technique", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.08, pp. 36-41, 23rd – 24th April, 2022.
8. Munna lal Jatav, Ashutosh Datar, and **Leeladhar Malviya**, "Resource optimization using improved genetic algorithm for device to device communication cellular network", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.87, pp. 499-503, 23rd – 24th April, 2022.
9. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and Dhiraj Nitnaware, "Ultra wideband MIMO antenna design with high isolation for THz application", 11th International Conference on Communication Systems and Network Technologies 2022, Indore, India, DOI: 10.1109/csnt.2022.06, pp. 26-30, 23rd – 24th April, 2022.
10. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and Dhiraj Nitnaware, "Graphene based multiband stack patch THz antenna with proximity feed", Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726472, pp. 544-547, 13th – 16th December, 2021.
11. Rashami Pant, and **Leeladhar Malviya**, ''A 2x2 MIMO antenna array based on photonic band gap for terahertz applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726488, pp. 68-71, 13th – 16th December, 2021.
12. Mohit Pant, and **Leeladhar Malviya**, ''A 1x4 antenna array with defected ground structure for 5G applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, Doi: 10.1109/InCAP52216.2021.9726496, pp. 228-231, 13th – 16th December, 2021.
13. Mantar Singh Mandloi, Ajay Parmar, Priyanshi Malviya, and **Leeladhar Malviya**, ''4x4 Butler matrix design for multibeam operation for Radar applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, doi: 10.1109/InCAP52216.2021. 9726450, pp. 533-536, 13th – 16th December, 2021.
14. Megha Soni, Ajay Daneriya, and **Leeladhar Malviya**, ''Planar 2 x 2 MIMO-Array antenna using power divider for 5G applications," Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, 991-994, Doi: 10.1109/InCAP52216.2021. 9726368pp. 991-994, 13th – 16th December, 2021.
15. Munna lal Jatav, Ashutosh Datar, and **Leeladhar Malviya**, "Optimization of resource and energy for D2D enable communication system using constraint's-based function", IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES-2021), Chennai, India, DOI: 10.1109/ICSES52305.2021.9633854, pp. 1-5, September, 24th-25th 2021.
16. Rohit Yadav, Ajay Parmar, **Leeladhar Malviya**, and, Dhiraj Nitnaware, "28 GHz inset feed circular shaped compact patch antenna array for 5G wireless communication", IEEE,10th International Conference on Communication Systems and Networking Technologies (10th CSNT 2021), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.01, pp. 1-4, April, 24th-25th 2021.
17. Leevanshi Rao**, Leeladhar Malviya**, M. P. S. Chawla, and Ajay Parmar, "MIMO-array antenna with beamforming for 5G applications", IEEE, 10th International Conference on Communication Systemsand Networking Technologies (10th CSNT 2021), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.7, pp. 27-32, April, 24th-25th 2021.
18. Naveen Kumar Dubey, M. P. S. Chawla, and **Leeladhar Malviya**, " An artificial neural network based forecasting strategy for estimating weather parameters: Application for sizing stand-alone renewable power system", IEEE, 10th International Conference on Communication Systemsand Networking Technologies (10th CSNT 2021), Oriental University, Bhopal, India, DOI: 10.1109/CSNT.2021.50, pp. 279-284, April, 24th-25th 2021.
19. Rashami Pant, **Leeladhar Malviya**, and Vineeta Choudhary, "Design of high gain hexagonal microstrip patch antenna on photonic crystal for THz applications", 3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020.
20. Mohit Pant, **Leeladhar Malviya**, and Vineeta Choudhary, "Gain and bandwidth enhancement of 28 GHz tapered feed antenna array", IEEE, 11th International Conference on Computing, Communication and Networking Technologies (11th ICCCNT 2020), IIT Khara gpur West Bengal India, July 1-3, 2020, DOI: 10.1109/ICCCNT 4923 9 .2020.9225502.
21. **Leeladhar Malviya**, Parul Gupta, Ajay Parmar, and Deepak Solanki, Priyanshi Malviya, "MIMO antenna design with low ECC for mmwave," *2019 IEEE Indian Conference on Antennas and Propogation (InCAP),*

Ahmedabad, India, 2019, pp. 1-5, Doi: 10.1109/InCAP47789.2019.9134671.

22. Megha Soni, **L. D. Malviya**, "Multi-port MIMO antennas with mutual coupling reduction techniques for morden WLAN application: A review" 17th International conference on Sustainable Research in Engineering, Technology, Pharmacy & Management-2019 (IC-SRETPM-2019), Sagar, MP, India, 25-26 May, 2019 (Presented).
23. Pratik Waghmare, Parul Gupta, Karan Gehlod, Ashish Shakya, and **Leeladhar Malviya**, ''2x2 wideband array MIMO antenna for 5G spectral," *2019 IEEE 5th International Conference for Convergence in Technology (I2CT)*, Bombay, India, 2019, pp. 1-4, 29th – 31st March, 2019, DOI: 10.1109/I2CT45611.2019.9033947.
24. **Leeladhar Malviya**, Ashish Shakya, and Karan Gehlod, ''5.8 GHz WLAN MIMO antenna with power divider arms," Indian Conference on Antennas and Propagation (InCAP), Hyderabad, India, DOI: 10.1109/INCAP.2018.8770955, pp. 1-4, 16th – 19th December, 2018, doi: 10.1109/INCAP.2018.8770955.
25. **Leeladhar Malviya**, Karan Gehlod, and Ashish Shakya, ''Wide-band meander line MIMO antenna for wireless applications," *2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Bangalore, 2018, pp. 1663-1667, 19th -22nd September 2018, DOI: 10.1109/ICACCI.2018.8554719.
26. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''Proximity coupled MIMO antenna for WLAN/WiMAX applications," IEEE Asia Pacific Microwave Conference 2016 (APMC), Delhi, India, pp. 1-4, 5th-9th, December 2016.
27. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''2 × 2 MIMO antenna for ISM band application," 11th International Conference on Industrial and Information Systems (ICIIS 2016), Roorkee, India, pp. 794-797, 3rd-4th December, 2016.
28. **Leeladhar Malviya**, Jagannath Malik, Rajib K. Panigrahi, and M. V. Kartikeyan, ''Design of a compact MIMO antenna with polarization diversity technique for wireless communication," International Conference on Microwave, Optical and Communication Engineering (ICMOCE), Bhubaneswar, India, DOI:10.1109/ ICMOCE. 2015.7489681, pp. 21-24, 18th-20th December 2015.
29. **Leeladhar Malviya**, Rajib K. Panigrahi, and M. V. Kartikeyan, ''Pattern diversity based MIMO antenna for low mutual coupling," IEEE Applied Electro-magnetic Conference (AEMC), Guwahati, India, DOI:10.1109/AEMC.2015.7509132, pp. 96-97, 18th-21st December. 2015.
30. V. B. Shukla, M. Panchal, **L. D. Malviya**, "Peak to average power reduction in OFCDM system to enhance the spectral efficiency," IEEE conference 2013: The Next Generation Information Technology Summit (4th International Conference), Noida, DOI: 10.1049/cp.2013.2328, pp. 278-282, 26-27 September 2013.
31. Geetesh Kwatra, and **L. D. Malviya**, "Channel performance by using adaptive equalization techniques in MIMO system for multipath fading environment", International conference on telecommunication and networks (TEL-NET)-2013, Gaziabad, India,pp. 392-396, 27-28 February, 2013.
32. Sonam Shakya, **L. D. Malviya**, and S. V. Charhate, "Performance Evaluation of Adaptive Modulation techniques for Wimax Physical Layer with Different Cyclic Prefix", International conference on Computer Science, Information and Technology (ICSIT)-2012, Ahemadabad, India,pp. 132-135, 2012.
33. S. V. Charhate, **L. D. Malviya**, and Manish Sahu, "Power saving of 802.16e mobile WiMAX by modulation techniques and transport layer protocols", International Conference on Power, Control and Embedded Systems-2010, MNNIT, Allahabad, pp. 100-103, Nov. 28-December, 2010.
34. **L. D. Malviya**, Rohit yadav, and Jaya Diptilal, "New image processing techniques to disclose hidden boundaries", International conference on Intelligent Information systems and Management-2010, RVS group of engineering and Management institutions Coimbtore, Tamil Nadu, pp. 1-5, 5-7 December 2010.
35. **L. D. Malviya**, A. Gaiwak, and P. D. Vyavahare, "Performance evaluation of transport layer protocols using adaptive modulation and coding scheme for WiMAX", ICEMC2-08, Infosys, Mysore, pp -340-347, 11-14 August 2008.
36. **L. D. Malviya**, A. Gaiwak, and P.D.Vyavahare, "Simulation based comparison of different modulation schemes for Mobile WiMAX using TCP and its variants", ICETET-08, G.H. Raisoni College of Engineering, Nagpur, pp. 168-171, 16-18 July 2008.
37. Geetesh Kwatra, and **L. D. Malviya**, "Optimized ergodic and outage channel capacity in MIMO system for multipath fading environment", National conference on Advances in Communications and Computing-

2013, Acropolis Engineering College, Indore, India, January 12, 2013.

38. Minakshi Haldar, Rekha Jain, **L. D. Malviya**, "A short survey on wireless sensor network", First National Conference SHODA-SAMAGAM-2012, B. M. College of Technology, Indore, India, April 27-28, 2012.
39. Alok Panday, **L. D. Malviya**, "Comparative study of BP and Tabu algorithm in ANN", First National Conference on Recent Trends in Engineering and Science-2012, Prestige Institute of Engineering and Science, Indore, India, pp. 187-189, April 20-21, 2012.
40. S. V. Charhate, **L. D. Malviya**, and Manish Sahu, "Evaluation of power consumption technique of IEEE 802.16E mobile WiMAX with TCP variants", National Conference on Advances in Electrical and Electronics Engineering (AEEE)-2011, Swami Vivekanand College, Indore, India, February 24-25, 2011.
41. **L. D. Malviya**, M.P.S. Chawla , "A common understanding of MATLAB and utility of its tool boxes", 2nd Bhartiya Vigyan Sammelan, DAVV- 2009, Indore, India, pp. 96-96, 1-3 December, 2009.
42. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, Hannie S. Lal, "Biasing effects on non- linear systems with neural network approach", KovilpattiTuticorin Dt. Tamil nadu NACIPAN-2005, National engineering college, pp. 316-323, 2005.
43. **L. D. Malviya**, M.P.S. Chawla, "Modeling and software analysis of IC 555 based pulse modulator", NCIAITET-2005, Rathinamangalam, Chennai, pp. 46-46, 18-19 February, 2005.
44. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, B. M. Sharma, "Transient analysis of liquid level 80C535 microcontroller based embedded system", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 245-249, 25-26 March 2005.
45. M.P.S. Chawla, **L. D. Malviya**, N. D. Somani, B. M. Sharma, "Modeling and software analysis of operational amplifier with noise effect considerations", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 97-100, 25-26 March 2005.
46. **L. D. Malviya**, M.P.S. Chawla, S. V. Charhate, and Rishabh Verma, "High level adder design techniques for high performance and low power", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 169-171, 25-26 March 2005.
47. **L. D. Malviya**, M.P.S. Chawla, S. V. Charhate, and Amit Kumar Saini, "Modeling of logical operations using different conventions", Tamil Nadu PCID-2005, BAIT, Sathyamangalam, Erode Dt, pp. 257-261, 25-26 March 2005.
48. Krishna Raj, **L. D. Malviya**, Madhusudan singh, "Design of FIR filter", sub-centre IS-2000, CSI Gwalior Chapter, IETE Gwalior, pp. 57-71, 2000.

5. List of Conferences/Workshops/Seminars Organized

1. **11th International conference on Communication Systems and Network Technologies (CSNT)-2022 organized in Madhya Pradesh during 23/04/2022 to 24/04/2022 as General Chair.**
2. Basics of MATLAB and its applications, JIT, Borawan, Khargone (M.P.), 4th-6th January, 2018 (Organizer).
3. Fundamental of MATLAB application for solving engineering problems, JIT, Borawan, Khargone (M.P.), 28th -30th July, 2017 (Organizer).
4. Fundamentals & applications on MATLAB, SDIT, Khandwa (M.P.), 12th-13th October, 2011 (Organizer).
5. MATLAB and its applications, JIT, Borawan, Khargone (M.P.),22nd-23rd May, 2010 (Organizer).

6. Invited Lectures/Expert Talks/Chairmanships at Conferences

1. Appointed as reviewer in International Journal of Communication Systems (Wiley), 2019-2022.
2. Appointed as reviewer in IEEE Internet of Things Journal, 2020.
3. Appointed as reviewer in IEEE Access Journal, 2019-2022.
4. Appointed as reviewer in International Journal of Electronics and Communications (Elsevier), 2022.
5. Appointed as reviewer in International Journal of RF and Microwave Computer Aided Engg. (Wiley), 2017-2022.
6. Appointed as reviewer in IET Microwaves, Antennas and Propagation, (2017).
7. Appointed as reviewer in Progress in Electromagnetics Research (PIER), (2016).
8. Session chair in International conference on communication systems and network technologies (CSNT-2021), OIST, Bhopal (M.P.), 18-19 June, 2021.
9. Session Chair in International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, 2018, during 19th -22nd September 2018.
10. Session Chair in Bhartiya Vigyan Samelan (BVS-2009), DAVV, Indore, during 1-3 Dec, 2009.
11. Beamforming techniques for modern wireless communication, S.G.S.I.T.S., Indore (M.P.), 3th June, 2020, (Online Webinar/Expert Lecture/Coordinator).
12. Applications of MIMO system on 5G, Shivajirao Kadam Institute of Technology and Management, Indore (M.P.), 30th December, 2020 (Online/Expert Lecture).
13. 5G Technology, Eklavya University, Damoh (M. P.), 27th November, 2020(Online/Expert Lecture).
14. TPC member in 4th International Conference on Machine Intelligence and Signal Processing (MISP), 12-14 March, 2022, NIT, Raipur, India.
15. International advisory in 2nd International Conference on Science Technology and Management (ICSTM-2022)to be held on 24th- 25th February 2022 in Bangkok, Thailand.
16. National advisory member in IETE National Conference on "VLSI, Communication and Signal Processing" NCVCS 2021-- 27th to 28th November 2021, NIT Bhopal (M.P.)
17. National conference on next generation communication technologies (NCNGCT 2020), during 21-22 December 2020, Jointly organized by IEEE, IE, and IEEE M. P. subsection, M. I. T. S., Gwalior (M. P.), 21st December, 2020, (Invited talk).
18. Microwave Engineering, IGEC, Sagar (M.P.), 9th-11th September, 2020, (Online/Expert Lectures).
19. MIMO antennas and Beamforming Techniques, IEEE-MTTS-SBC, Jadhavpur Unversity, Kolkata Section, 6th September, 2020 (Online Webinar/Expert Lecture).
20. MIMO antennas for 5G, SVCE, Indore (M.P.), 8th June, 2020 (Online Webinar/Expert Lecture)..
21. MATLAB and its applications, JIT, Borawan, Khargone (M.P.), 16th-18th January, 2020 (Expert Lectures).
22. MIMO antenna design for wireless communication, S.G.S.I.T.S., Indore (M.P.), 09th December 2019 (Expert Lecture).
23. MIMO antenna design, SATI Vidisha, (M.P.), 23rd September 2019 (Expert Lecture).
24. OFDM 5G MIMO communication technologies, Sagar Institute of Science and Technology Bhopal, 10th April 2019 (Expert lecture).
25. Some studies on MIMO antennas with diversity techniques for wireless applications S.G.S.I.T.S., Indore (M.P.), 14th August, 2017 (Expert lecture).

26. Basics of signal and system, JIT, Borawan, Khargone (M.P.), 20th June, 2017 (Expert lecture).
27. Software defined radio development using LABVIEW, IIT Roorkee-4th-5th February, 2014 (IEEE MTTS Vice-chair).
28. Advancement in communication systems, MIT, Indore (M.P.), 12th November, 2008 (Expert lecture).

7. Other Relevant Information

(I) Patent Publication

S. No.	Patent title	Name of writers	Application no.	Publication date	International /national
1.	**Novel miniaturized dual-port ultra wide-band MIMO antenna**	Mohit Pant, Mahesh Porwal, Rashmi Pant, **L. D. Malviya,** Vineeta Choudhary, Manish Jain	201921052961A	27/12/2019	National

(II) Book Publication

Title	Authors	Publisher	DOP	ISBN
MIMO antennas for wireless communication theory and design (https://doi.org/10.1201/9781003080275)	Leeladhar Malviya, Rajib Kumar Panigrahi, M. V. Kartikeyan	Taylor and Francis group (CRC press)	16 December 2020	9780367530471 (Hardback) 9781003080275 (e-book)

(III) Book Chapters

S. No.	Title	Authors	Book/Series name	Conference/Year of publication
7.	5G-NR wideband MIMO antenna design using stepped radiators for wireless communication	Mantar Singh Mandloi, Ajay Parmar, Karan Gehlod, Ashish Shakya, Priyanshi Malviya, and Leeladhar Malviya,	Book: Advanced Wireless Communication and Sensor Networks: Applications and Simulations", **Taylor and Francis**,	February 2023 (Tentative) (**Accepted for publication**)

			CRC Press, **USA (Scopus Indexed)**	
6.	Optimization of resource and energy utilization in device-To - device communication under cellular network	Munna lal Jatav, Ashutosh Datar, and **Leeladhar Malviya**	Springer Lecture Notes on Data Engineering and Communications Technologies Series, **Springer-Singapore,** vol. 2, Book: Intelligent Sustainable Systems, ISBN: 978-981-16-6368-0, pp. 729-739, January 2022 (Ch. 66).	5th World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4 2021), **London, United Kingdom**, July 29-30, 2021
5.	Performance improvement of 28 GHz antenna Array for fifth generation wireless communication system	Mohit Pant, Leeladhar Malviya, Vineeta Choudhary	**Lecture notes in Electrical Eng. (LNEE),** Springer-Singapore, **vol. 777, Recent Trends in Electronics and Communi-cation, 10.1007/ 978-981-16-2760-6, pp. 371-380, January 2022 (Ch. 35).**	3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020
4.	Butler matrix design for smart antenna in X-band applications	Mantar Singh Mandloi, Dr. Leeladhar Malviya, Ajay Parmar & Priyanshi Malviya	Lecture notes in Electrical Eng. (LNEE), **Springer-Singapore,** vol. 777, Recent Trends in Electronics and Communication, 10.1007/978-981-16-2761-3_52, pp. 593-602, January 2022 (Ch. 52).	3rd International Conference on VLSI, Communication and Signal Processing (VCAS 2020), MNNIT Allahabad, India, October 9-11, 2020
3.	Design and analysis of gain enhancement THz microstrip curvature patch PBG antenna with inset feed	Rashmi Pant, Leeladhar Malviya, Vineeta Choudhary	**Lecture Notes in Networks and Systems (LNNS), Springer-Singapore, vol.140, Book ISBN: 978-981-15-7130-5. Doi.org/10.1007/978-981-15-7130-5_57, pp. 707-715, 2021.**	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in UIET, Kurukshetra University, Kurukshetra, Haryana, India
2.	A 28 GHz corporate-series fed taper antenna array for fifth generation	Mohit Pant, Leeladhar Malviya, Vineeta Choudhary	**Lecture Notes in Networks and Systems (LNNS), Springer-Singapore, vol.140, Book ISBN:**	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in

	wireless communication		**978-981-15-7130-5. Doi.org/10.1007/978 -981-15-7130-5_56, pp. 697-705, 2021.**	UIET, Kurukshetra University, Kurukshetra, Haryana, India
1.	5G inset feed antenna array for 28 GHz wireless communication	Rohit Yadav, Dhiraj Nitnaware, Leeladhar Malviya	**Lecture Notes in Networks and Systems (LNNS), Springer-Singapore, vol.140, Book ISBN: 978-981-15-7130-5. Doi.org/10. 1007/ 978-981-15-7130- 5_31, pp. 401-408, 2021.**	1st International Conference on Mobile Radio Communications & 5G Network (MRCN-2020) during 26th -28th March 2020, in UIET, Kurukshetra University, Kurukshetra, Haryana, India

(IV) Membership of Professional Society

IEEE Senior Member USA, Fellow IETE India, IE(I) (LM), ISTE (LM)

Dr.Leeladhar Malviya
Professor, E&TC