

AWARDS/PAPERS/COURSES/SYMPOSIUM

Awards

1. **Best Paper Award** for “An Optically Transparent Antenna for IoT Applications” IEEE International Conference on Electrical and Electronics Engineering (ICE3-2020), February 14-15, organized by MMMUT, Gorakhpur, India and North Dakota State University, Fargo, USA.
2. **Shortlisted for the Best Paper Award for** “Transmission Zero Controlled Wideband Bandpass FSS” IEEE MTT-S International Microwave and RF Conference (IMaRC) December 13-15, 2019 at IIT Bombay, Mumbai, India.

Papers Published in International Journals

1. **Chitra Singh**, Kumud Ranjan Jha, Satish Sharma, Zahoor A. Pandit Jibrán, Ghanshyam Singh, “Design of a wideband square slot bandpass frequency-selective surface using phase range analysis” *Engineering Reports, John Wiley and Sons*.
2. **Chitra Singh**, Kumud Ranjan Jha, Varinder Singh and G. Singh, “Cross-polarization reduction of microstrip antenna using microwave absorbers,” *International J. of RF Microwave Computer Aided Engineering, John Wiley and Sons*, vol. 27, no.5, pp.1-10, 2017.
3. Kumud Ranjan Jha, Bisma Bukhari, **Chitra Singh**, Ghanshyam Mishra, and Satish K. Sharma, “Compact Planar Multi-Standard MIMO Antenna for IoT Applications,” *IEEE Transactions on Antennas and Propagation*, vol. 66, no.7, pp. 3327-3336, 2018.
4. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, ‘Responsible Disposal and Recycling of Hazardous E-Garbage’, Mar28-31, International Conference ICET-2011, Mar28-31, NIT Durgapur, Technically Co-Sponsored by IEEE Calcutta and IEEE Kharagpur Section; *International Journal of Systems Simulation*, ISSN: 0975-2080. vol.5, no.1, pp. 29-36, Jan.-June 2011.
5. **Chitra Singh** and R.P.S. Gangwar, ‘Design and Analysis of a Multifunctional Compact Microstrip Antenna’, International Conference ICET-2011 Mar28-31, NIT Durgapur, Technically Co-Sponsored by IEEE Calcutta and IEEE Kharagpur Section; *International Journal of Electronics and Computers*, vol.3, no.1, pp. 33-38, Jan-June 2011 ISSN: 0975-3796.
6. **Chitra Singh** and R.P.S. Gangwar, ‘Computer Aided Design and Simulation of a Multiobjective Microstrip Patch Antenna for Wireless Applications’, *IJACSA*, U.S ISSN: 2156-5570(Online), U.S ISSN: 2158-107X(Print). vol.2, no.3, March 2011.
7. **Chitra Singh**, R.P.S.Gangwar, ‘Design and Simulation of Circularly Polarized Compact Microstrip Patch Antenna for C-Band Applications’, *IJCSE*, ISSN: 0975-3397. vol.3, no.3 Mar. 2011.

8. Manish K. Rai, **Chitra Singh**, Devansh Mohan Dwivedi, “Home Automation and Security using Advanced Communication Technologies” J. of Network Security, ISSN: 2395-6739, Vol. 7, Issue 1, pp. 7-10, 2019.

Book Chapters

9. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, (2012) ‘Nanoscience and Nanotechnology: Social, Environmental and Human Health Issues’, “Climate Change and New Challenges, Society, Environment and Development”, Concept Publishing Company, New Delhi. ISBN-13:978-81-8069-866-8.
10. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh (2012), ‘GIS and Remote Sensing for Environmental Management, Food Security and Poverty Alleviation’, “Global Climate Change and Indian Economy”, SSDN Publishers and Distributors, New Delhi. ISBN No 987-93-8117-661-0.
11. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh (2012), ‘Environmental Management of Hazardous E-Waste: The Indian Scenario’, “Environmental Management: Meeting the Challenges of Climate Change”, SSDN Publishers and Distributors, New Delhi. ISBN No 978-93-8117-656-6.
12. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, ‘Eco-Building Concepts of Environmental Protection’, 10th ISE and 8th HWWE meet, International Conference on “ERGO 2012: SAFETY FOR ALL” HWWE, 2012, Dec. 6-8, 2012, organized by College of Home Science, G.B. Pant Univ. of Ag. & Tech., Pantnagar. Published in “Humanizing Work and Work Environment, ERGO SAFETY FOR ALL” Published by Daya Publishing House, New Delhi. ISBN 978-93-5131-227-8.
13. R.P.Singh, **Chitra Singh** and U.P.S.Bhardwaj, ‘Environmental Management of MSW for Biosafety and Bioenergy’, 10th ISE and 8th HWWE meet, International Conference on “ERGO 2012: SAFETY FOR ALL” HWWE, 2012, Dec. 6-8, 2012, organized by College of Home Science, G.B. Pant Univ. of Ag. & Tech., Pantnagar. Published in “Humanizing Work and Work Environment, ERGO SAFETY FOR ALL” Published by Daya Publishing House, New Delhi. ISBN 978-93-5131-227-8.

Papers Presented in International Conferences:

14. Shreya Jamwal, Sukriti Gupta, Zahoor A. P. Zibran, Kumud Jha and **Chitra Singh** “An Optically Transparent Antenna for IoT Applications” IEEE International Conference on Electrical and Electronics Engineering (ICE3-2020), February 14-15, MMMUT, Gorakhpur, India. Available *IEEEExplore*.
15. **Chitra Singh**, Kumud Ranjan Jha, Satish Sharma “Transmission Zero Controlled Wideband Bandpass FSS” IEEE MTT-S International Microwave and RF Conference (IMaRC) December 13-15, 2019 at IIT Bombay, Mumbai, India. Available *IEEEExplore*.
16. Javid Ganie, **Chitra Singh**, Kumud Jha, Satish Sharma “A LTE Band Integrated 5G Antenna Design using Characteristic Mode Analysis” IEEE International Symposium

on Antennas and Propagation and USNC-URSI Radio Science Meeting in Atlanta, Georgia, 7-12 July 2019. Available *IEEEExplore*.

17. **Chitra Singh**, Kumud Ranjan Jha, and G. Singh, "Analysis and Design of a X-band Wideband Bandpass FSS" IEEE Applied Electromagnetics Conference, Aurangabad, Maharashtra, Dec. 19 -22, 2017, pp. 1-2, Available *IEEEExplore*.
18. Bisma Bukhari, **Chitra Singh**, Kumud. Ranjan Jha, and Satish K. Sharma "Planar MIMO Antennas for IoT and CR Applications," IEEE Applied Electromagnetics Conference (AEMC) Aurangabad, Maharashtra, Dec. 19 -22, 2017, pp. 1-2, Available *IEEEExplore*.
19. **Chitra Singh** and Kumud Ranjan Jha, "Bandpass Frequency Selective Surface with Wide Shielding Effectiveness," 2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), Gorakhpur, India, 2-4 Nov. 2018, pp. 1-2, Available *IEEEExplore*.
20. Ajay Kochar, Abhishek Nargotra, Kshitiza Joshi, Ankit Sharma, **Chitra Singh** and Kumud Ranjan Jha, "Frequency Agile Bandpass Filter for the Lower LTE Band Applications" URSI-RCRS-2017, Tirupati, India, March 1-4, 2017.
21. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, 'Role of Electronics for Tractors and Agricultural Equipments', 3rd International Conference on Production and Industrial Engineering CPIE-2013, March 29-31, 2013, *NIT Jalandhar*.
22. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, 'Prospects and Challenges of Renewable Energy Production and Utilization', 3rd International Conference on Production and Industrial Engineering CPIE-2013, March 29-31, 2013, *NIT Jalandhar*.
23. **Chitra Singh** and R.P.S. Gangwar, 'Design and Analysis of a Compact Low Cost Patch Antenna for Different Wireless Operations', April 22-24, International Conference ETNCC-2011, Udaipur, organized by IEEE, Institution of Engineers, CSI. Available *IEEEExplore*.
24. **Chitra Singh** and R.P.S. Gangwar, 'Design and Simulation of Slotted Patch Antenna with Improved Radiation Pattern', April 22-24, International Conference ETNCC-2011, Udaipur, organized by IEEE, Institution of Engineers and CSI. Available *IEEEExplore*.
25. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, 'Environmental Implications and Management of Hazardous E-Waste', 2nd International Conference on Production and Industrial Engineering CPIE-2010, Dec. 3-5, 2010, *NIT Jalandhar*.

Papers Presented in National Conferences

26. Manish Kumar Rai, **Chitra Singh**, Devansh Mohan Dwivedi, "Home Automation and Security using advanced communication technologies," IEEE Recent Trends in Devices, Circuits and Communication (RTDC-2019), Apr. 15-16, 2019.
27. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, 'Environmental Consequences of Renewable Energy', Green Technologies for Sustainable Environmental Management

GTSEM-13, School of Environment & Natural Resources, Doon University, Dehradun, March 22-23, 2013.

28. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, ‘Sustainable Development Through Green Building Technologies’, Green Technologies for Sustainable Environmental Management GTSEM-13, School of Environment & Natural Resources, Doon University, Dehradun, March 22-23, 2013.
29. **Chitra Singh**, U.P.S.Bhardwaj and R.P.Singh, ‘Nanotechnology, Providing an Alternate to Current Space Shuttles’, at National Conference on Recent Advances in Mechanical and Production Engineering RAMP 2009, College of Technology, G.B. Pant Univ. of Ag. & Tech., Pantnagar, Feb.12-14, 2009.
30. **Chitra Singh**, Himani Maheshwari and U.P.S.Bhardwaj, ‘Metamaterials’, National Conference STEM 2007, College of Technology, G.B. Pant Univ. of Ag. & Tech., Pantnagar, Oct. 29-31, 2007.

Courses/Symposium Attended

1. Attended a MHRD sponsored GIAN course at IIT Kharagpur on “Millimeter-Wave Antennas, Circuits and Systems” Nov. 28 – Dec. 2, 2017.
2. Attended an IEEE International Symposium on Electromagnetic Compatibility, Signal and Power Integrity, Washington DC, Aug. 7 – 11, 2017.
3. TEQIP-III funded one-week short-term course on “Emerging Issues in VLSI Design”, organized by School of Electronics and Comm. Engg., SMVDU, Katra, May 7 – 11, 2018.

Workshops Attended

1. “Advanced Embedded Systems and Microelectronics (AESM 2019), TEQUIP III sponsored, and organized by Motilal Nehru National Institute of Technology Allahabad, Apr. 1-5, 2019.
2. “Introduction to MATLAB and Research Enhancement Tools” funded by TEQIP-III and technically supported by Mathworks India, organized by School of Electronics and Comm. Engg., SMVDU, Katra, Mar. 16 – 25, 2018.
3. “Scientific Writing using LaTeX” organized by School of Electronics and Comm. Engg., SMVDU, Katra, Feb. 24, 2017.
4. “Ultra Low Power Biosensors and Implantable Microsystems” organized by School of Electronics and Comm. Engg., SMVDU, Katra, Dec. 2 – 3, 2016.
5. “Patent Drafting and Filing” organized by SMVDU, Katra in association with TIFAC, Dept. of Science and Technology, GoI, Oct. 20, 2016.
6. “Research Methodologies and Data Analysis”, organized by Human Resource and Development Cell, SMVDU, Katra, Sept. 26 – 28, 2016.

SOFTWARE AND HARDWARE SKILLS

1. CST Microwave Studio (Simulation)
2. HFSS (Simulation)
3. RF Sim (Simulation)
4. Mat Lab (Introduction)
5. LaTeX (Introduction)
6. Microsoft Office (Working)
7. Fabrication of Planar structure by Dry and Wet Etching method (Hardware)
8. Fabrication of Planar structure with Prototyping Machine (Hardware)
9. Surface Mount Device Application (Hardware)
10. Use of Vector Network Analyzer (Measurement)
11. Anechoic Chamber Measurement (Measurement)
12. Antenna Measurement (Measurement)
13. Frequency Selective Surface Measurement (Measurement)

ON THE PANEL OF REVIEWERS OF INTERNATIONAL JOURNALS

International Journal of RF & Microwave Computer-Aided Engineering, John Wiley & Sons.

PROFESSIONAL MEMBERSHIP

Member, IEEE (Institution of Electrical and Electronics Engineers).