
List of Publications

• Journal Publications

- [1]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Compact Printed Diversity Antenna for LTE700/ GSM1700/ 1800/ UMTS/ Wi-Fi/ Bluetooth/ LTE2300/ 2500 Applications for Slim Mobile Handsets," *Progress In Electromagnetics Research C*, Vol. 56, pp. 83-91, 2015.
- [2]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "A Low Profile Tri-Band Diversity Antenna For WLAN/Wi-MAX/HIPERLAN Applications with High Isolation," *Microwave Optical Technology Letters*, Vol. 57, No. 2, pp. 452-457, Jan. 2015.
- [3]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Design and Performance Investigation of a Low Profile MIMO/Diversity Antenna for WLAN/ WiMAX/ HiperLAN Applications with High Isolation," *International Journal of RF and Microwave Computer-Aided Engineering*. (DOI: 10.1002/mmce.20886)
- [4]. **Hari S. Singh**, Gaurav K. Pandey, Pradutt K. Bharti, and Manoj K. Meshram, "A Compact Dual-Band Diversity Antenna for WLAN Applications with High Isolation," *Microwave Optical Technology Letters*, Vol. 57, No. 4, pp. 906-912, 2015.
- [5]. **Hari Shankar Singh**, Mayank Agarwal, Gaurav Kumar Padey, and Manoj Kumar Meshram, "A Quad-Band Compact Diversity Antenna for GPS L1/ Wi-Fi/ LTE2500/ WiMAX/ HIPERLAN1 Applications," *IEEE Antennas and Wireless Propagation Letters*, Vol. 13, pp. 249-252, Jan. 2014.
- [6]. **Hari Shankar Singh**, Bhaskarareddy Meruva, Gaurav Kumar Padey, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Low Mutual Coupling Between MIMO Antennas by Using Two Folded Shorting Strips," *Progress In Electromagnetics Research B*, Vol. 53, pp. 205-221, 2013.
- [7]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Simulation Study of Four Element MIMO Antenna System with Pattern and Polarization Diversity" *International Journal of Advances in Science and Technology (IJAST)*, pp. 224-229, 2014. (ISSN 2348-5426).
- [8]. **Hari Shankar Singh**, Shalini, and Manoj Kumar Meshram, "Printed Monopole Diversity Antenna for USB Dongle Applications," *Wireless Personal Communication*. (Accepted)
- [9]. **Hari Shankar Singh** and Manoj Kumar Meshram, "Effect of User Proximity on Internal Quad Band Mobile Phone MIMO/ Diversity Antenna Performances," *Wireless Personal Communication*. (Under Review)

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- [10]. Pradutt K. Bharti, **Hari S. Singh**, Gaurav K. Pandey, and Manoj K. Meshram, "Thin Profile Wideband Printed Monopole Antenna for Slim Mobile Handsets Applications," *Progress In Electromagnetics Research B*, Vol. 57, pp. 149-158, 2015.
- [11]. Pradutt Kumar Bharti, Gaurav Kumar Pandey, **Hari Shankar Singh**, and Manoj Kumar Meshram, "Multiband Shorted Monopole Antenna for Handset Applications," *Microwave Optical Technology Letters*, Vol. 57, No. 6, pp. 1459-1466, June 2015.
- [12]. G. K. Pandey, **H. S. Singh**, P. K. Bharti, A. Pandey, and Manoj K. Meshram, "High Gain Vivaldi Antenna for Radar and Microwave Imaging Applications," *International Journal of Signal Processing Systems*, Vol. 3, No. 1, pp. 35-39, June 2015.
- [13]. Gaurav Kumar Pandey, **Hari Shankar Singh**, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Design of Polarization Insensitive Triple Band Artificial Magnetic Conductor" *International Journal of Advances in Science and Technology (IJAST)*, pp. 230-234, 2014. (ISSN 2348-5426)
- [14]. Rajesh Singh, Gaurav Kumar Pandey, Mayank Agarwal, **Hari Shankar Singh**, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Compact Planar Monopole Antenna with Dual Band Notched Characteristics Using T-shaped Stub and Rectangular Mushroom Type Electromagnetic Band Gap Structure for UWB and Bluetooth Applications," *Wireless Personal Communications*, Vol. 78, Issue 1, pp. 215-230, September 2014.
- [15]. Pradutt Kumar Bharti, Gaurav Kumar Padey, **Hari Shankar Singh**, and Manoj Kumar Meshram, "A Compact Multiband Planar Monopole Antenna for Slim Mobile Handset Applications," *Progress In Electromagnetics Research B*, Vol. 61, pp. 31-42, 2014.
- [16]. Gaurav K. Pandey, **Hari S. Singh**, Pradutt K. Bharti, and Manoj K. Meshram, "Metamaterial Based UWB antenna," *Electronics Letters*, Vol. 50, pp. 1266-1268, 2014.
- [17]. Gaurav K. Pandey, **Hari S. Singh**, Pradutt K. Bharti, and Manoj K. Meshram, "Design of WLAN Band Notched UWB Monopole Antenna with Stepped Geometry Using Modified EBG Structure," *Progress In Electromagnetics Research B*, Vol. 50, pp. 201-217, 2013.
- [18]. Pradutt K. Bharti, **H. S. Singh**, G. K. Pandey, and M. K. Meshram, "Slot Loaded Tri Band Microstrip Antenna for Wireless Applications," *International Journal of Microwaves and Optical Technology*, Vol. 8, No.3, pp. 120-128, May 2013.
- [19]. Pradutt K. Bharti, **Hari S. Singh**, Gaurav K. Pandey, Manoj K. Meshram, and B. R. Vishvakarma, "Coupled Fed Shorted Uniplanar Monopole Antenna for Slim Mobile handsets," *International Journal of Microwaves and Optical Technology*, Vol. 9, No. 5, pp. 346-352, May 2014.

• **Papers Presented in Symposium/Conference and/or Published in the Proceedings**

- [1]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt K Bharti, Rajesh Singh, and Manoj Kumar Meshram, "Internal Compact Quad-Band Diversity Antenna for Next Generation Mobile Handsets Applications," *Antenna Test and Measurement Society (ATMS 2015)*, Bangalore, India, pp. 1-5, February 3-4, 2015.
- [2]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, Mayank Agarwal, and Manoj Kumar Meshram, "Simulation Study of Four Element MIMO Antenna System with Pattern and Polarization Diversity" *International Conferences on Electronics and Electrical Engineering (ICAEET-2014)*, Pattaya, Thailand, November 8-9, 2014.
- [3]. **H. S. Singh**, G. K. Pandey, P. K. Bharti, and M. K. Meshram, "Design of Low Profile Ultra Wideband PIFA for MIMO Applications," *IEEE Region Ten Symposium (IEEE TENSYP 2014)*, Kuala Lumpur, Malaysia, pp.448-453, April 14-16, 2014.
- [4]. **H. S. Singh**, P. K. Bharti, G. K. Pandey, and M. K. Meshram, "Compact Penta-Band Coupled-Fed Printed Monopole MIMO/Diversity Antenna for Smart Mobile Phone," *International Conference on Microwave and Photonics (ICMAP-2013)*, Dhanbad, India, pp. 1-5, December 13-15, 2013.
- [5]. **Hari S. Singh**, Gaurav K. Pandey, Pradutt K. Bharti, and Manoj K. Meshram, "Spiral-shaped High Isolated Monopole MIMO/Diversity Antenna for Small Mobile Terminals," *CACCS-2013*, Dehradun, India, pp. 612-616, April 6-8, 2013.
- [6]. **Hari S. Singh**, Gaurav K. Pandey, Pradutt K. Bharti, and Manoj K. Meshram, "A Compact Dual Band MIMO/Diversity Antenna for WLAN Applications," *IEEE Students's Conference on Engineering and Systems (SCES)*, Allahabad, India, pp. 1-5, April 12-14, 2013.
- [7]. **Hari Shankar Singh**, Pradutt Kumar Bharti, Gaurav Kumar Pandey and Manoj Kumar Meshram, "A Compact Tri-Band MIMO/Diversity Antenna for Mobile Handsets," *IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT-2013)*, Bangalore, India, pp. 1-6, Jan 17-19, 2013.
- [8]. **Hari S. Singh**, Pradutt K. Bharti, Gaurav K. Pandey, and Manoj K. Meshram, "A Novel Diversity Antenna for WLAN Applications," *National Conference on Recent Trends on Microwave Techniques and Applications (Microwave - 2012)*, Jaipur, India, pp. 1-4, July 30- August 1, 2012.
- [9]. **Hari Shankar Singh**, P. K. Bharti, G. K. Pandey, and M. K. Meshram, "A Novel MIMO/Diversity Antenna for GSM1800 and WiMAX Applications," *Souvenir of the 8th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2012)*, Jodhpur, India, pp 313-316, December 11-15, 2012.
- [10]. **Hari Shankar Singh**, Gaurav Kumar Pandey, Pradutt Kumar Bharti, Mayank Agarwal, and Manoj Kumar Meshram, "A Quad Band Four Element MIMO Antenna System with Pattern and Polarization Diversity," *Indian Antenna Week*

- (*IAW-2014*), Chandigarh, India, pp. 1-4, May 26-30, 2014.
- [11]. Gaurav Kumar Pandey, **Hari Shankar Singh**, Pradutt K Bharti, and Manoj Kumar Meshram, "Application of Polarization Insensitive Triple Band Artificial Magnetic Conductor with a UWB antenna," *Antenna Test and Measurement Society (ATMS 2015)*, Bangalore, India, pp. 1-4, pp 230-234, February 3-4, 2015.
- [12]. Gaurav Kumar Pandey, **Hari Shankar Singh**, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Design of Polarization Insensitive Triple Band Artificial Magnetic Conductor," *International Conferences on Electronics and Electrical Engineering (ICAEEE-2014)*, Pattaya, Thailand, pp. 230-234, November 8-9, 2014.
- [13]. Shraavan Kumar Vaishya, Gaurav Kumar Pandey, **Hari Shankar Singh**, and Manoj Kumar Meshram, "Broadband Circular polarized Four Arm Sinuous Antenna," *Souvenir of the 10th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, pp. 175-177, December 9-12, 2014.
- [14]. Satish Jhariya, Gaurav Kumar Pandey, **Hari Shankar Singh**, Manoj Kumar Meshram, "Miniaturized Vivaldi Antenna with Gaussian Slot for UWB Applications," *Souvenir of the 10th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, pp. 219-221, December 9-12, 2014.
- [15]. Mohit Kumar Saxena, Gaurav Kumar Pandey, **Hari Shankar Singh**, and Manoj Kumar Meshram, "Dual Antenna Structure for Passive RFID Tags," *Souvenir of the 10th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, pp. 179-182, December 9-12, 2013.
- [16]. G. K. Pandey, **H. S. Singh**, P. K. Bharti, and M. K. Meshram, "Metamaterial Based Compact Antenna Design for UWB Applications," *IEEE Region 10 Symposium (IEEE TENSYP 2014)*, Kuala Lumpur, Malaysia, pp.78-81, April 14-16, 2014.
- [17]. Sachin Kalraiya, **H. S. Singh**, and M. K. Meshram, "Microstripline-Fed Dual Band Printed Monopole Antenna for WLAN/ WiMAX/ HIPERLAN Applications," *IEEE Region 10 Symposium (IEEE TENSYP 2014)*, Kuala Lumpur, Malaysia, pp.238-281, April 14-16, 2014.
- [18]. Awadhesh Singh, Gaurav K. Pandey, Sachin Kalraiya, **Hari Shankar Singh**, and Manoj K. Meshram, "Design of Modified Rhomboidal Dualband Antenna for Bluetooth and UWB Applications," *IEEE Students' Technology Symposium*, Khadagpur, India, pp. 368-371, February 28 - March 2, 2014.
- [19]. Sachin Kalraiya, **Hari Shankar Singh**, Gaurav K. Pandey, Awadhesh Singh, and Manoj K. Meshram, "CPW-Fed Double Ring Shaped UWB Antenna with 3.5/5.5 GHz Dual Band Notched Characteristics," *Souvenir of the 9th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, Dec 11-14, 2013.
- [20]. Shalini, **Hari S. Singh**, G. K Pandey, Pradutt K. Bharti, Himanshu, and Manoj K. Meshram, "Octa-Band Monopole MIMO Antenna for Small Mobile Terminals," *Souvenir of the 9th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, Dec 11-14, 2013.

- [21]. Himanshu Verma, Gaurav K. Pandey, **Hari S. Singh**, Pradutt K. Bharti, Shalini, and Manoj K. Meshram, "Compact UWB Antipodal Vivaldi Antenna with Novel Tapering," *Souvenir of the 9th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2013)*, Jodhpur, India, December 11-14, 2013.
- [22]. P. K. Bharti, **H. S. Singh**, G. K. Pandey, and M. K. Meshram, "Compact Six-Band Coupled-fed Planar Inverted-F Antenna for Slim Mobile Phone," *International Conference on Microwave and Photonics (ICMAP - 2013)*, Dhanbad, India, pp. 1-4, December 13-15, 2013,.
- [23]. G. K. Pandey, **H. S. Singh**, P. K. Bharti, and M. K. Meshram, "UWB Monopole Antenna with Enhanced Gain and Stable Radiation Pattern Using Gate like Structures," *International Conference on Microwave and Photonics (ICMAP - 2013)*, Dhanbad, India, pp. 1-4, December 13-15, 2013.
- [24]. Gaurav K. Pandey, **Hari S. Singh**, Pradutt K. Bharti, and Manoj K. Meshram, "Design of Stepped Monopole UWB Antenna with WLAN Band Notched Using Modified Mushroom Type EBG Structure," *IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT-2013)*, Bangalore, India, pp. 1-6, January 17-19, 2013.
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- [26]. Pradutt K. Bharti, **Hari S. Singh**, G. K. Pandey, and Manoj K. Meshram, "Fork-Shaped Slot Loaded Microstrip Antenna for ISM and WiMAX applications," *Souvenir of the 8th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2012)*, Jodhpur, India, December 11-15, 2012.
- [27]. Gaurav K. Pandey, **Hari S. Singh**, Pradutt K. Bharti, and Manoj K. Meshram, "Design of Dual Band Notched UWB Elliptical Monopole Antenna Using Mushroom Type EBG Structure," *Souvenir of the 8th International Conference on Microwaves Antenna Propagation & Remote Sensing (ICMARS-2012)*, Jodhpur, India, pp. 344-347, pp. 395-397, December 11-15, 2012.
- [28]. Gaurav Kumar Pandey, **Hari Shankar Singh**, Pradutt Kumar Bharti, and Manoj Kumar Meshram, "Design of High Gain Vivaldi Antenna for Radar and Microwave Imaging Applications," *Indian Antenna Week (IAW-2014)*, Chandigarh, India, pp. 1-4, May 26-30, 2014.
- [29]. Pradutt Kumar Bharti, **Hari Shankar Singh**, Gaurav Kumar Pandey, and Manoj Kumar Meshram, "A Compact Planar Shorted Monopole Antenna for Mobile Handset Applications," *Indian Antenna Week (IAW-2014)*, Chandigarh, India, pp. 1-4, May 26-30, 2014.