



Appendix D

**Research
Publications**



Appendix D: Research Publications

• Journal Publications

- Pooja S. Suratia and Satish K. Shah, “Conceptual Design of MIMO Wireless Communication System” , International Journal of Advanced Research in Computer and Communication Engineering [IJARCCE], Vol. 1, Issue 5, July 2012, ISSN : 2278 1021.
- Pooja S. Suratia and Satish K. Shah, “Performance Analysis of Open and Closed Loop Spatial Multiplexing in LTE Downlink Physical Layer”, Proceedings of IEEE International Conference on Communications, Network and Satellite (ComNetSat), Indonesia, pp. 60-63, July 2012. DOI: 10.1109/ComNetSat.2012.6380777
- Satish K. Shah, Pooja S. Suratia and Nirmalkumar S. Reshamwala, “Comparative Performance Analysis of ANN Based MIMO Channel Estimation for downlink LTE-Advance System employing Genetic Algorithm”, The International Journal of Soft Computing and Software Engineering [JSCSE], Vol. 3, No. 3, Special Issue: The Proceeding of International Conference on Soft Computing and Software Engineering 2013 [SCSE13], San Francisco, CA, U.S.A., March 1-2, 2013. DOI: 10.7321/jscse.v3.n3.111
- Nirmalkumar S. Reshamwala, Pooja S. Suratia, Satish K. Shah, “Study of ANN Configuration on Performance of Smart MIMO Channel Estimation for Downlink LTE-Advanced System”, International Journal of Computer Network and Information Security [IJCNIS], Vol. 5, No. 11, September 2013. DOI: 10.5815/ijcnis.2013.11.04

• International Conferences

- Pooja S. Suratia and Satish K. Shah, “Performance Analysis of Open and Closed Loop Spatial Multiplexing in LTE Downlink Physical Layer”, IEEE International Conference on Communications, Network and Satellite (ComNetSat), Indonesia, pp. 60-63, July 2012. DOI: 10.1109/ComNetSat.2012.6380777
- Satish K. Shah, Pooja S. Suratia and Nirmalkumar S. Reshamwala, “Comparative Performance Analysis of ANN Based MIMO Channel Estimation for downlink LTE-Advance System employing Genetic Algorithm”, International Conference on Soft Computing and Software Engineering 2013 [SCSE13], San Francisco, CA, U.S.A., March 1-2, 2013. DOI: 10.7321/jscse.v3.n3.111

- *National Presentations and Technical Awards*

- Pooja Suratia, “GUI Based MIMO-WS (Multi-Input Multi-Output Wireless Simulator) for Capacity and Performance Analysis”, State Level Paper Contest- Control, Microcomputer, Electronics and Communication (CMEC), organized jointly by IETE and Electrical Engineering Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, February 2011. The paper received **Second Prize**.
- Pooja Suratia, “Design and Implementation of Wireless Control of FTE Embedded Robot”, State Level Paper Contest- IT Security with 4G communication (ITS4GC), organized jointly by IETE-Vadodara and The Institution of Engineers IE(I)-Vadodara, April 2012. The paper received **First Prize**.
- Pooja Suratia, “Performance Analysis of ANN Based MIMO Channel Estimation for downlink LTE-Advanced System”, National Level Paper Contest- Soft Computing for Processing, Security Networking and Communication (SCPSNC), organized jointly by IETE and Electrical Engineering Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, January 2013. The paper received **First Prize**.
- Pooja Suratia, “Throughput Optimization of LTE Downlink Physical Layer employing Fuzzy-Decision model for MIMO mode switching”, National level Paper Contest- Target Technologies in Computing, Automation and Communication (TTAC), organized jointly by IETE-Vadodara and The Institution of Engineers IE(I)-Vadodara, March 2014. The paper received **First Prize**.

- *Sponsored Grant*

The project is approved by Department of Science and Technology under Women Scientist Scheme (WOS-A) for three years and has received total amount of Rupees 19,95,000/- for the implementation of the project at Electrical Engineering Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara.