

List of Main Publications

International Journals

- Shikha Nema, Tejal Sonawale, "Routing Protocol Analysis in MANETs" published in **International Journal of Systems, Algorithms and Applications** , Vol 2 Issue 12, December 2012
- Shikha Nema, Namita Aggrawal, "Space Time Coding Techniques: A Review" published in **International Journal of Engineering Research and Technology** , Vol 1 Issue 6, August 2012
- Shikha Nema , Beena Ballal , "Development in Indoor Optical Fiber wireless Networks" published in **International Journal of Computer Science and Communication Networks**, Vol 1 (2) pp100-104, Nov 2011
- Shikha Nema, Snehal Gaikwad " MIMO Technology for Wireless Sensor Network" published in **International Journal of Computer Science and Communication Networks**, Vol 1 (2) pp105-110, Nov 2011
- Somu Parande , Shikha Nema "Architecture of Software defined Radio using Digital Signal Processor" published in **UNIASCIT**, VOL1 (1) pp 33-43 ,2011
- Shikha Nema, Aditya Goel, R P Singh "Integrated DWDM and MIMO-OFDM System for 4G High Capacity Mobile Communication" published in **Signal Processing-An International Journal** Vol 3 No.5 pp 132-143 Nov 2009
- Shikha Nema, Aditya Goel, R P Singh "Performance Analysis of DWDM CDD- MC-CDMA System with space time coding" published in **International Journal of Electronics Engineering Research**.
- Shikha Nema, Aditya Goel, R P Singh "Simulation of ICI cancellation approach in MIMO-OFDM system" published in **International Journal of Engineering and Technology (IETECH)**

- Kavita Khairnar, Shikha Nema ,”*Comparison of Multi-User Detectors of DSCDMA System*” published in **World Academy of Science, Engineering and Technology** Vol 10, 2005 pp 193-195
National Journal
- Shikha Nema, Aditya Goel, R P Singh “**Performance Analysis of CDMA and MC-CDMA with Smart Antenna**” published in the Electronics & Telecommunication Engineering Journal of IEI, Vol. 91, July 2010 issue

International Conferences

- Shikha Nema, Tejal Sonawale, “Performance Comparison in MANETs” published in International Joint Conference on Emerging Intelligent Sustainable Technologies, May 2012
- Shikha Nema, Namita Aggrawal Published paper titled , “Spatial Multiplexing Techniques for MIMO systems” in International Conference on New Development and challenges in Engineering, Technology and Management , Mumbai 2012
- Shikha Nema, Namita Aggrawal Published paper titled , “Spatial Modulation Techniques for MIMO systems” in International Conference and workshop on Emerging Trends in Technology, TCET , Mumbai 2012
- Shikha Nema, Namita Aggrawal Published paper titled , “Performance Analysis of Alamouti scheme in Rayleigh channel” in IEEE International Conference on Communication, Information and Computing Technology, Mumbai 2011
- Shikha Nema , Nusrat Ansari, “ Developments in Indoor Optical Fiber Wireless Networks” in International conference 2011.
- Shikha Nema, Snehal Gaiwad , “ MIMO Technology for Wireless Sensor Network” in International Confernece 2011.
- Shikha Nema , Shubhangi B , “Control of Propagation delay in meander lines using defected control structures” in International Symposium December 2010
- Shikha Nema , Anudeepa Kolhapure “Design of timing signal generator (TSG) for low and medium PRF RADAR using FPGA” In International Conference Dec 2009

- Shikha Nema, Shubhangi Bhansode, “Prediction of accurate delay using meander lines as delay lines for use in High speed digital circuits” in International Conference Nov 2010
- Shikha Nema , Nusrat Ansari , “Dense wavelength division multiplexing networks waves system for high data rate communication” in International Conference in Feb 2010
- Shikha Nema , Mamta Tikkaria, “Wavelet Neural network based intelligent system for oil pipeline perfect characterization in International Conference 2010
- Shikha Nema , Mamta Tikkaria, “Wavelet Neural network for defect characterization” in International Conference 2010
- Shikha Nema , Aparna Telgote “Uplink multiuser MIMO OFDM using genetically improved turbo receiver with IDPC decoder “ in International Conference Oct 2009.
- Shikha Nema, Aditya Goel , R P Singh “Performance Comparison of 64 Channel DWDM system with Fiber Bragg Grating” presented at ***International Conference on Communication, Computers and Instrumentation*** , Mumbai January 02-03, 2009 organized by VES Institute of Technology, India
- Shikha Nema, Aditya Goel , R P Singh “Performance Analysis of Space time coded MC-CDMA System” presented at ***International Conference on Communication, Computers and Instrumentation*** , Mumbai January 02-03, 2009 organized by VES Institute of Technology, India
- Shikha Nema, Aditya Goel , R P Singh “Performance analysis of MIMO-OFDM and MIMO-MC-CDMA” accepted at ***International Conference on Communication, Computers and Instrumentation*** , Mumbai January 02-03, 2009 organized by VES Institute of Technology, India

- Shikha Nema, Aditya Goel , R P Singh “MIMO-OFDM system for 4G Cellular Communications ” paper presented at the ***International Conference on "Emerging Technologies in Telecommunication Convergence (ICETTC07)"*** ***organized by IETE Mumbai*** , 11-12 January2007
- Shikha Nema, Aditya Goel , R P Singh “A Capacity analysis of MIMO-OFDMA for 4G Cellular System Design ” paper presented at the ***International Conference on Advances in Computing, Communication and Control*** organized by Fr Rodrigues College on engineering in cooperation with ACM-SIGART, 23-24 January2009
- Shikha Nema, Aditya Goel , R P Singh “Multiuser MIMO-OFDM Enhancement using Genetically Improved Turbo receiver” *presented* at ***International Conference on Emerging and Futuristic System and Technology***, Jaipur, April 09-11, 2008 organized by Laxmi Devi Institute on Engineering and Technology , Alwar , India

National Conferences

- Shikha Nema , Mamta Tikaria, “Wavelet Neural network approach for oil gas pipeline fault detection and characterization using magnetic flux leakage” in National Conference in March 2010
- Shikha Nema , Mamta Tikaria , “Comparative study of oil gas pipeline fault detection and characterization using magnetic flux leakage” in National Confernece March 2010
- Shikha Nema, Aditya Goel, R P Singh , “MIMO-MC-CDMA – A *Promising Technology for 4G Wireless Communication*” presented at ***National Conference on "Recent***

Advances in Computers & Communications” held at Vidyalkar Institute of Technology, Wadala , Mumbai on September 29-30 2008

- Shikha Nema, Aditya Goel, R P Singh , “Performance Analysis of 64 channel DWDM system for fiber radio system” presented at ***National Seminar on “Advances in wired and wireless technology”*** held at University Institute of Technology, Barkatullah University , Bhopal on 26-27 April 2008
- Shikha Nema, R P Singh, Aditya Goel, “Performance Analysis of cyclic Delay diversity based Space time coded MCCDMA system” presented at ***National Conference on “Recent trends in wired and wireless Communications”*** held on 13-14 March 2008 at SIES College of Technology, Mumbai
- Shikha Nema, Aditya Goel, “Performance Analysis of Alamouti Scheme for MIMO system” presented at ***National Seminar on Advancements in Electronics and Communication Technology*** held on December 2-3, 2007 at SCOPE college of Engineering , Bhopal
- Shikha Nema, Aditya Goel , R P Singh “Capacity planning – a dynamic resource allocation problem in IEEE 802.16” presented at ***National Conference on Wireless and Optical Communication (WOC-2007)*** held on 13-14 December, 2007 at Punjab Engineering College (Deemed University) Chandigarh.
- Shikha Nema Aditya Goel , R P Singh “Emerging trends in broadband services” presented at ***National Conference On Emerging Trends in Signal Processing & Communication(ETSPC-2007)*** held on December 27-29, 2007 at Maharashtra Academy of Engineering, Alandi, Pune,