Dr. Manish Kumar Patidar

Assistant Professor(SG)

Education: B.E. (Electronics Engineering), M.E. (Digital Communication), Ph.D.

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Areas of Interest: OFDM, MIMO and Neural Network

Brief Profile:

Dr. Manish K. Patidar received B.E. from R.G.P.V., Bhopal in 2002 and M.E. from D.A.V.V. Indore in 2005. He completed Ph.D. in "Efficient PAPR Regulation in OFDM system using Soft Computing Techniques" from JUET Guna in 2015. He has fourteen years of teaching experience and guided several project at undergraduate level. He has published several research papers in referred including SCI indexed journals.

Ph.D. (Ongoing-02)

[1] Mr. Amit Shivhare (173A001) - MIMO communication systems
[2] Mr. Manoj Kumar (183A001), "Multi-carrier communication" .

M.Tech (Completed - 02)

[1] Miss Harsha Nigam (122010), "Performance evaluation of CFO in SCFDMA" , 2014.
[2] Miss Anjali Shukla(152001), " Implementation of modulation techniques on OFDM Simulink model" , 2017

Academic Activities:

1. ISF (IETE student's forum) Counsellor(2016-Till Date)
2. Departmental Portal incharge

Member of Professional Bodies:

IEEE member, Indian Science Congress Association member, IETE associate member.

Publication@JUET

Publication details google profile link

Journals:

(1) "OFDM link with a better performance using Artificial Neural Network," Wireless Personal Communications, Springer, vol.77, no. 2, pp. 1477-1487, July 2014. (Co-Authors Dr. Amit Mishra and Prof. Rajiv Saxena) (SCI)

(2) "AGP-NCS scheme for PAPR Reduction," Wireless Personal Communication, Springer, vol. 82, no.3, pp. 1201-1212, June 2015. (Co-Authors Dr. Amit Mishra and Prof. Rajiv Saxena) (SCI)

(3) "Probabilistic Constellation Extension scheme for PAPR reduction in OFDM signals," International Journal of Wireless and Microwave Technologies (IJWMT), MECS-Publisher, vol. 5, no. 2, pp. 12-21, May 2015. (Co-Authors Dr. Amit Mishra and Prof. Rajiv Saxena). (Int. Journal)

(4) "Partial Approximate Gradient Constellation for PAPR reduction in OFDM Signals," International Journal of System, Control and Communication, Inderscience Publisher, vol. 7, no. 1, pp. 83-96, Jan 2016. (Co-Authors Dr. Amit Mishra and Prof. Rajiv Saxena) (Scopus).

(5) "Performance Evaluation of CFO in Single Carrier-FDMA," International Journal of Electrical, Electronics and Computer Engineering, vol. 3, no. 1, pp 104-110, May 2014. (Co-Author-Harsha Nigam) (Int. Journal).

(6) "PAPR and SNR performance analysis of IFDMA and LFDMA technique in a single carrier frequency division multiple access system," International Journal of Engineering and Computer Science, vol. 4, no. 5, pp. 11889-11894, May 2015. (Co-Author-Suyash Kumar Singh) (Int. Journal).

(7) "BER Analysis of Modulation techniques based OFDM system," International Journal of Innovative Research in Science & Engineering, vol 5. no. 3,pp. 35-41, April 2017. (Co-Author-Anjali Shukla) (Int. Journal).

(8) "Review of MIMO-OFDM System Using Simulink Model", International Journal of Computer Sciences and Engineering, Vol. 7, no. 3, pp. 72-75, Mar 2019. (Co-author- Amit Shivhare and Dr. Ravi Kumar) (UGC).

(9) "PAPR reduction in OFDM using combinational approaches", JUET Research Journal of Science & Technology, vol. 5, no. 1, January 2019. (Co-author- Dr. Rahul Pachauri) (Int. Journal).

(10) "Performance Enhancement of Microstrip patch antenna with Photonic Bandgap Structure" Communication Systems & Networking, (CSN -2008), JIET, Guna, pp. 135-138, March 15- 16, 2008. (Co-author- Dr. Rahul Pachauri). (Nat. Conf.)

(11) "Cascaded gradient sequence for LTE system to reduce peak power", International Conference on Advanced Computation and Telecommunication (ICACAT-2018), Bhopal, December 29, 2018. (Co-author- Amit Shivhare and Dr. Ravi Kumar). (Int. Conf.)

(12) "A survey paper on ISI and PAPR reduction techniques in OFDM", International Conference on Recent innovations in Engineering, Science and Management (ICRIESM-2019), Noida, 5-6 April 2019 pp. 116-123.(Co-author- Manoj Kumar, Ashutosh Pandey and Dr. Narendra Singh). (Int. Conf.)

(13) "Cyclostationary Feature Detection Method for Cognitive Radio",JUET Research Journal of Science and Technology, vol. 6, no. 1&2, pp. 06-10, Jan 2020. (Co-author- Manoj Kumar,& Narendra Singh)

(14) "Spectral Efficiency Analysis using Orthogonal Frequency Division Multiplexing" 5th International conference ICRTC-21, Sanjivni COE Kopargaon, Maharashtra (Co-author- Manoj Kumar,& Narendra Singh)

Workshops attended/ organized:

(1) One Week Faculty development program on "Deep learning & Application" organized by Department of Electronics and Information Technology, IITDM, Jabalpur during May 27-31, 2019.

(2) Two days workshop on "MATLAB Application in Science & Engineering" organized by ECE Department, JUET Guna, during February 11-12, 2017.(Organizing Member)

(3) Three days workshop on "High performance VLSI architectures for Digital signal Application: Design & Implementation" organized by ECE Department, JUET Guna, during September 9-11, 2016.

(4) Three days workshop on "MIMO-OFDM Wireless Communications" organized by EE Department, IIT Kanpur, during February 19-21, 2016.

(5) Three days workshop on "VLSI Design" organized by ECE Department, JUET Guna, during July 14-16, 2015.

(6) Five days National workshop on, "Application oriented networking", organized by CSE Department, JUET Guna, during July 9-13, 2013.

(7) Four days IUCEE workshop on "Image Processing and Digital Communications", organized by ECE Department, JUET Guna, during June 6-10, 2011.

(8) Five days National Workshop on, "Digital signal and image processing", organized by ECE Department, JUET Guna, during July 5-10, 2010.

Conference attended:

(1) International Conference on "Recent Developments in Applicable Mathematics and Information Technology" organized by CSE Department, JUET Guna during December 4-6, 2009.

(2) National Conference on "Communication System and Networking" organized by ECE Department, JUET, Guna during March 15-16, 2008.