



Anita Mohanty, Ph.D.

Designation : Associate Professor

Department : Department of Electronics and Communication
Engineering

(JOINED THE INSTITUTE IN DECEMBER 2005)

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RESEARCH INTERESTS

- ✓ Instrumentation & control
- ✓ Vehicular communication
- ✓ Computational intelligence

Academic Qualifications

Ph. D. (Electronics and Telecommunication Engg.), Utkal University, Odisha.

M.E. (Communication System Engineering), UCE Burla, Sambalpur University,
Odisha.

B.Tech (Instrumentation and Electronics Engineering), CET, OUAT, Odisha.

Teaching Experience/Industrial Experience/Research Experience

- [1] Senior Assistant Professor in the Department of Electronics & Instrumentation Engineering in SIT, Bhubaneswar since 19th December 2005.
- [2] Lecturer in the Department of Electronics & Telecommunication Engineering in DRIEMS, Tangi, Cuttack from 11th October 2003 to 15th December 2005.
- [3] Lecturer in the Department of Electronics & Telecommunication Engineering in KIIT, Bhubaneswar from 11th Dec 2001 to 4th July 2003.

PUBLICATIONS

JOURNAL

- [1] **Anita Mohanty**, Subrat Kumar Mohanty, Bhagyalaxmi Jena, Ambarish G. Mohapatra, Ahmed N. Rashid, Ashish Khanna, Deepak Gupta, 'Identification and Evaluation of the Effective Criteria for Detection of Congestion in a Smart City', IET Communications, (2022) pp. 1-11. DOI: 10.1049/cmu2.12344
- [2] **Anita Mohanty***, sudipta Mahapatra, Urmila Bhanja, "Traffic Congestion Detection In A City using Clustering Techniques In VANETs", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 13, No.3, (2019) pp.-884-891.
- [3] Urmila Bhanja*, **Anita Mohanty** and Bhagyashree Das," Embedded Based Real Time Traffic Congestion Detection, *Int. J. Vehicle Information and Communication Systems*, Vol. 3, No. 4, (2018) 267-280.

- [4] S. S. Kar, **A. Mohanty***, S. K. Mohanty," Analysis of Multiplexing Techniques using LABVIEW", International Journal of Engineering Research (IJER), vol. 4, Special Issue 1, pp. 36-38, Jan. 2015, ISSN (Print) 2347-5013.
- [5] **A. Mohanty***, S. S. Kar, B. Jena and M. Dehury, "Synthesis and Analysis of Analog Communication Techniques using LABVIEW ," *International Journal of Electrical, Electronics and Computer Systems (IJECS)* , vol. 2, no. 11-12, pp. 14-18, Dec. 2014. ISSN (Print) 2347-2820.
- [6] B. Jena, M. Dehury, **A. Mohanty*** and S. S. Kar, "ALU Design and Its Performance Analysis in LABVIEW," *ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE)*, vol. 2, no. 5, pp. 8-12, Nov. 2014. ISSN (Print) 2320-8945.
- [7] **A. Mohanty***, S. K. Mohanty "Wavelet Based Approach for Sensor Validation", International Journal on Advanced Electrical and Electronics Engineering (IJAE), Vol.1, No.1, pp 26-32, August 2012.

ANY OTHER

CONFERENCES

- [1] D. Nayak, A. G. Mohapatra, B. Keswani, **Anita Mohanty**, P. K. Tripathy, "IoT Enabled Predictive Maintenance of Diesel Generator in the Context to Industry 4.0", 19th OITS International Conference on Information Technology (OCIT-2021), IEEE, during 16-18 December 2021. DOI: 10.1109/OCIT53463.2021.00078
- [2] Bhagyalaxmi Jena, **Anita Mohanty**, Subrat Kumar Mohanty, "Gender Recognition and Classification of Speech Signal", Elsevier International Conference on Smart Data Intelligent (ICSMDI 2021, during 29-30 April 2021. Available at SSRN: <https://ssrn.com/abstract=3852607>
- [3] **Anita Mohanty**, Subrat Kumar Mohanty, Bhagyalaxmi Jena, "A Real-Time Fuzzy Logic Based Accident Detection System In VANET Environment", Proceedings of International Conference on Cognitive Informatics & Soft Computing (CISC-2020), Advances in Intelligent Systems and Computing, Springer Book Series, Vol.1317, pp. 685-696. First online: 02 July 2021, DOI <https://doi.org/10.1007/978-981-16-1056-1>
- [4] Bhagyalaxmi Jena, **Anita Mohanty**, Subrat Kumar Mohanty, "Gender Recognition of Speech Signal using KNN and SVM", Elsevier International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2020), during 10-11 December 2020. Available at SSRN: <https://ssrn.com/abstract=3769786> or <http://dx.doi.org/10.2139/ssrn.3769786>
- [5] **Anita Mohanty**, Subrat Kumar Mohanty, Jitesh Kumar, "A Prototype of Density based Intelligent Traffic Light Control System Using Image Processing Technique and Arduino Microcontroller in Lab VIEW Environment ", Proceedings of International Conference on Advances In Electrical Control & Signal Systems (AECSS-2019), Springer Lecture Notes in Electrical Engineering, Vol. 665, First Online: 01 July 2020, DOI https://doi.org/10.1007/978-981-15-5262-5_56.
- [6] **Anita Mohanty**, Urmila Bhanja, Sudipta Mahapatra, "Intelligent Traffic Quantification System", Proceedings of International Conference on Advanced Material Technologies (ICAMT)-2016, IOP Conference Series: Materials Science and Engineering, Vol.225, DOI <https://doi.org/10.1088/1757-899X/225/1/012179>.

BOOK CHAPTER

- [1] **Anita Mohanty**, Bhagyalaxmi Jena, Subrat Kumar Mohanty, "Real Time Density based Traffic Congestion Detection System using Image Processing and Fuzzy Logic Controller", Advanced Sensing in Image Processing and IoT, CRC Press, Taylor & Francis, pp. 1-18, 2022. <https://doi.org/10.1201/9781003221333>.
- [2] **Anita Mohanty**, Subrat Kumar Mohanty, Bhagyalaxmi Jena, "VANET-based Intelligent Traffic Light Control System by Detecting Congestion using Fuzzy C-Means Clustering Technique in a Smart City", Internet of Things: Energy, Industry and Healthcare, Taylor Francis, CRC Press, pp. 1-18, 2021. <https://doi.org/10.1201/9781003140443>.
- [3] **Anita Mohanty**, Subrat Kumar Mohanty, "National Education Policy 2020-Issues and Challenges", National Education Policy 2020, Kunal Publisher, pp. 254-257, 2021. ISBN No. -9789391908188
- [4] **Anita Mohanty**, Subrat Kumar Mohanty, "Impact of COVID-19 on Higher Education", COVID-19 and Education, Kunal Publisher, pp. 165-173, 2021. ISBN No. -9789391908058

Reviewer :

1. TELKOMNIKA (Telecommunication, Computing, Electronics and Control), ISSN: 1693-6930, e-ISSN:2302-9293,2019.
2. TELKOMNIKA (Telecommunication Computing Electronics and Control),ISSN:1693-6930, e-ISSN:2302-9293, 2020.
3. Review four papers for Conference on Applied Electromagnetics, Signal Processing & Communication (AESPC 2021) conducted by Schools of Electronics, KIIT University, Bhubaneswar.

BOOK

- [1] Publish text book titled " Industrial Instrumentation" for B.Tech. Students

ACHIVEMENTS

Qualified GATE-2014 with 95.4 Percentile

MEMBER OF PROFESSIONAL BODIES

- [1] Life member ISTE (LM-80406)