

NEHA BANSAL



1. Name: Neha Bansal

- **Designation:** Lecturer
- **Department:** Electronics Engineering
- **Qualification:** PhD (Pur.) , M.Tech, B.Tech.
- **Experience:** 15+ year

2. Contact Information:

- **Email:** nehaa.88bansal@gmail.com

3. Research Interests:

- Artificial Intelligence, Digital Image Processing and Deep Learning etc

4. Teaching Areas:

- Digital Electronics Embedded System, Microprocessor, and Microcontroller etc.

5. Publications:

- **Paper Published in the International Journal**

- ✓ Bansal, N., Deolia, V.K., Bansal, A. and Pathak, P. “Performance evaluation of LSB Technique for Digital Watermarking”, International Journal of Information & Communication Technology (IJICT): Volume 4, No. 13, pp. 1237-1244, 2014.

- **Paper Published in the Proceedings of International Conferences**

- ✓ Bansal. N., and Bansal A., “Analyzing the variability of RNN hyperparameter and architectures of HAR with wearable sensor data”, Proceedings of International conference on “2024 3rd International conference on Power Electronics and IoT Applications in Renewable Energy and its Control (PARC) ”, 23-24 Feb, 2024, DOI: 10.1109/PARC59193.2024
- ✓ Kumar. S., Bansal. N., and Singh. S. N., “SMART INTERACTION USING HAND GESTURE RECOGNITION”, Proceedings of International conference on “Information and Communication Technology for Competitive Strategies (ICTCS- 2016)”, 4-5 March, 2016, Udaipur(ACM).
- ✓ Singh. D., Khan. A., Bansal. A., Bansal. N., “An Application of SVM in Character Recognition with Chain Code”, Proceedings of International

conference on “Communication Control and Intelligent System: CCIS-2015” , 7-8 November, 2015, Mathura(IEEE xplore).

- ✓ Bansal N., Bansal A., Deolia V.K., Pathak P., “Comparative Analysis of Digital Watermarking Techniques” Proceedings of the International Congress on Information and Communication Technology, Advances in Intelligent Systems and Computing 438, DOI 10.1007/978-981-10-0767-5_13, Springer Science+Business Media Singapore 2016.
- ✓ Singh D., Bansal A. and Bansal N., “Optical Character Recognition Using Artificial Neural Network as Classifier”, in the Proceedings of 2nd International Conference on VLSI, Communication and Networks(VCAN-2015), IET Alwar, 18-19 April, 2015.
- ✓ Singh, D., Bansal, A., Bansal, N., “A Review on Optical Character Recognition Using Various Techniques” Journal of Basic and Applied Engineering Research, vol. 2(2), 136-139, Jan-March, 2015.
- ✓ Bansal N., Bansal A., Deolia V.K., Pathak P., “Comparative Analysis of LSB, DCT, and DWT for Digital Watermarking”, Proceeding of 9th INDIACom, INDIACom 2015, 2nd IEEE International Conference on Computing for Sustainable Global Development, pp. 2.1-2.6, March 11-13, 2015.
- ✓ Pathak. P., Bansal. N. and Singh. S., “Mulyankan: A Prediction for Student’s Performance Using Neural Network”, Proceeding of 9th INDIACom, INDIACom 2015, 2nd IEEE International Conference on Computing for Sustainable Global Development,, pp. 2.7-2.10 March 11-13, 2015.
- ✓ Bansal N., Deolia V.K., Bansal A., Pathak P., “Digital Image Watermarking Using Least Significant Bit Technique in Different Positions”, Proceeding of Sixth International Conference on Computational Intelligence and Communication Networks, pp. 813-818, Nov. 14-16, 2014.
- ✓ Kashyap. M., Pradhan. R. and Bansal. N, “Average Illusion Technique for Digital Halftoning” Proceedings of 4th IEEE International Conference on "Advanced Computing and Communication Technologies" (ICACCT – 2010), Panipat, October 30, 2010.
- **Papers Published in the Proceedings of National Conferences**
 - ✓ “Comparative Study of Different Edge Detectors Used in Edge Detection” In the proceedings of 7th National Conference on Computing for Nation Development, New Delhi, March, 07-08, 2013, ISBN: 978-93-80544-06-0.

- ✓ Bansal. N. and Pathak. P., “A Review of Applications of Neural Network In Watermarking” Proceeding of 7th National Conference on Advancement of Technologies- Information Systems & Computer Networks , held at GLA University, Mathura, May 9-12, 2012 And Proceedings Published in International Journal of Computer Application, ISSN: 0975-8887.

○ **Workshops/Conferences Attended:**

- ✓ Attended Workshop on “IoT with AI and Data Science” Organized by IIT Patna (March 11 to 16, 2022).
- ✓ Attended AICTE recognized faculty development program on “Management Skill for Professional Teacher Excellence” Organized by NITTTR Chandigarh (May 25 to 29, 2020).
- ✓ Attended Workshop on “Unmanned arial vehicle / Drone (UAV)” organized by IIT Kanpur (March 13 to 16, 2023).
- ✓ Associated as an Expert in “INDUCTION TRAINING PROGRAMME FOR NEWLY RECRUITED TEACHERS" from 04.12.2023 to 08.12.2023 held on Jhansi, organized by Joint Director, BU Zone Jhansi & IRDT Kanpur.
- ✓ Received Elite+Silver category Certificate in MOOC course by Swayam Portal course on “Deep Learning” in 2020.

6. Extracurricular Involvement:

- ✓ Working as Head of Department Incharge of Department of Electronics Engineering.
- ✓ Member of different committees formed at Institute level.