

Name : Mamta Rani

Designation : Assistant Professor

Qualifications : M Tech, PhD Pursuing

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Area of Interest/Specialization: Biomedical Image Processing, Computer Vision, Machine learning, Deep-learning, Embedded Systems, Artificial Intelligence.

Experience : 11+ years

List of Papers published

Journals

1. **Rani, M.**, Yadav, J., Rathee, N., & Panjwani, B. (2024). Optifusion: advancing visual intelligence in medical imaging through optimized CNN-TQWT fusion. *The Visual Computer*, 1-18.
2. **Rani, M.**, Yadav, J., Rathee, N. and Goyal, S., 2024. Efficient fused convolution neural network (EFCNN) for feature level fusion of medical images. *Multimedia Tools and Applications*, 83(13), pp.40179-40214.
3. **Mamta Rani**, Jyoti Yadav, Neeru Rathee and Sonal Goyal paper titled 'Comparative Study of Various Preprocessing Technique for CNN based Image Fusion' in IEEE conference DELCON 2022 organized by Netaji Subash University of Technology, New Delhi India, held between 11th to 13th February 2022.
4. **Mamta Rani**, Rakhi Kamra Diksha, Priyank, Vipul , Ritesh paper titled 'SELF GENERATING AUTOMATED STREET MODEL' in college magazine Satyam, volume 9 (2021).
5. **Mamta Rani**, Hariom Thakur, Ashish Verma, Kanishk Vaishnav, Amey Warade paper titled 'Wireless Charging of Electric Vehicle in Smart Highway' in Global Scientific journals, Volume 9, Issue 6, page 1451-1453, ISSN 2320-9186, June 2021.
6. Srishti Gupta, and **Mamta Tholia**, Manuhar Swaroopa, and Shreyas Piplani 'Water Quality Analysis using Arduino' Journal of Mobile Computing, Communications & Mobile Networks', volume 8, no. 1, pages 21-27, ISSN 2349-901X, Nov 2020.
7. Vikrant Thakur, Naveen Meena, Chetan Atrai, Amit Aryan, **Mamta Tholia** 'Autonomous Self Driving Car' International Journal of Science and Research (IJSR) Volume 8 Issue 5, Page 259 – 262, May 2019.

8. **Mamta Rani**, Divyansh Yadav, Harsh kanywara, Shiwam panwar ‘Solar Electric Bus” in international conference on ‘international conference on Recent Innovation in Engineering , Science and Management” (ICRIESM-2018) held at(IEI,Mumbai) The institution of Engineering ,India, Maharashtra state Centre, Khadye Marg, Mumbai on 8th April 2018.
9. **Mamta Rani**, Dinesh Singh presented a paper titled ‘Safety of Satellites Through Removal of High Energy Particles in the Ionosphere’ at ‘national conference on electronics design and Communication Technology (NCEDCT- 2010)’ held at HCTM Kaithal.

Conference

1. **M. Rani** and N. Rathee, “Microexpression analysis: A review,” in Proceedings of 3rd International Conference on Computing Informatics and Networks (Singapore), pp. 125–132, Springer Singapore, 2021.
2. **Mamta Rani**, Jyoti Yadav, Neeru Rathee and Sonal Goyal paper titled ‘Comparative Study of Various Preprocessing Technique for CNN based Image Fusion’ in IEEE conference DELCON 2022 organized by Netaji Subash University of Technology, New Delhi India, held between 11th to 13th February 2022.
3. **Rani, M.**, Yadav, J. and Rathee, N., 2023, December. ATCNN-DWT Integration: A Combined Approach for Advanced Medical Image Fusion. In *2023 International Conference on Modeling, Simulation & Intelligent Computing (MoSICom)* (pp. 328-332). IEEE.

List of conference, seminar and workshops attended

1. Ms Mamta Rani have completed one week FDP on “Internet Of Things” from 15th January 2024 to 19th January 2024 conducted by ECE , MSIT in association with Brain Mentors Pvt. Ltd.
2. Dr. Jyoti Jain and Ms Mamta Rani have completed Faculty Development Programme on “Cyber Security " conducted by ICT academy at MSIT from February 5th-9th .2024.
3. Ms Mamta Rani attended one week STC (Short Term Course) Digital Tools for Teaching and Learning (ICT-174) from 11th-15th March, 2024 at NITTTR, Chandigarh, Organized by Department of IT, MSIT Delhi.
4. Ms Mamta Rani has completed Faculty Development Programme on “Recent Advancements in Machine Learning and Artificial Intelligence (RAMLAI’ 23) " organized by MSIT February 6th-10th .2023.
5. Ms Mamta Rani attended a two week Faculty Development Programme on “Deep Learning and OpenCV”at MSIT, Janakpuri from 21-11-2022-3-12-2022.
6. 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 6th June, 2022 to 10th June, 2022.

7. Attended AICTE Training And Learning (ATAL) Academy online FDP on 'Internet of Things (IoT)- A Practical Approach' from 6 Dec to 10 Dec 2021 by IT Department of MSIT, New Delhi.
8. Attended a one week faculty development program on the topic 'Recent Trends in Artificial Intelligence and its Applications' from 29 Nov to 3 Dec, 2021 by ECE Department of MSIT, New Delhi.
9. Attended a one week faculty development program on the topic 'Application of Artificial Intelligence in Research and development' organized by CSIR -Advanced Materials and Processes Research Institute from 5th to 9th July 2021.
10. Attended a one week faculty development program on the topic 'Use of ICT in Engineering Education' by MSIT (AICTE-ISTE sponsored) New Delhi from 7th to 13th April 2021.
11. Attended a one week faculty development program on the topic 'Renewable Energy Technologies' by BKBIET, Pilani and RTU, Kota from 26th Feb to 2 March 2021.
12. Attended AICTE Training And Learning (ATAL) Academy online FDP on "Artificial Intelligence" from 15-06-2020 to 19-06-2020 at Federation of Indian Chambers of Commerce and Industry (FICCI).
13. Attended a one week faculty development programme on the topic "Machine Learning Using Python" by Brain Mentors Pvt. Ltd held at MSIT Delhi during 02.03.2020 to 06.03.2020.
14. Attended a one week faculty development programme on the topic 'Modelling & Simulation using MATLAB Through ICT' at MSIT from 21st May 25th May 2018.
15. Attended a one week faculty development programme on the topic 'Power Electronics & its Applications' at MSIT from 27 November to 1st December 2017.
16. Attended a one week faculty development programme on the topic 'MATLAB & SCILAB' at MSIT from 18 Sep. to 22 Sep. 2017.
17. Attended a 2 day workshop on 'Recent Trends in Communication Computing and Signal Processing' held on March 30-31, 2012 at GTBIT, New Delhi.
18. Attended a 2 Day Workshop on Ethical Hacking held on April 20 – 21, 2012 at GTBIT, New Delhi.