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List of Publications

1. **Manisha**, Vipin Tiwari, Nandan Bisth and Rakesh Kumar Singh, A compact and lens less digital holography setup for polarimetric analysis of spatial light modulator, *Optics and Laser Technology* **167**, 109748 (2023) (Research Article)
2. **Manisha**, Mohit Rathor and Rakesh Kumar Singh, Single shot and speckle free reconstruction of orthogonal polarization modes with a tuneable beam displacer, *Journal of Optics* **25**, 025701 (2022), Editor's pick(Research Article)
3. **Manisha**, Aditya Chandra Mandal, Mohit Rathor, Zeev Zalevksy and Rakesh Kumar Singh, Randomness assisted in-line holography with deep learning, *Scientific Reports* **25**, no. 1, 10986 (2023) (Research Article)
4. **Manisha**, Vipin Tiwari, Nandan Bisth, Bhargab Das and Rakesh Kumar Singh, Ghost diffraction: A spatial statistical approach, *Optics Communications*,**528**, 129002 (2023) (Research Article)
5. **Manisha** and Rakesh Kumar Singh, Phase recovery in Ghost Diffraction, *Asian Journal of Physics*,**31**, 1073 (2022) (Review Article)
6. **Manisha**, Vipin Tiwari, Nandan Bisth, Bhargab Das and Rakesh Kumar Singh, Ghost Diffraction Scheme with Spatially Fluctuating Fields, in *Digital Holography and 3-D Imaging 2022*, D. Chu, J. Park, C. Cheng, and P. Ferraro, eds., Technical Digest Series (Optica Publishing Group, 2022), paper Th2A.12 (Conference paper)
7. **Manisha**, Aditya C Mandal and Rakesh Kumar Singh, Second-order correlation of randomness for enhanced quality imaging. In *Biomedical Imaging and Sensing Conference (Vol. 12608, pp. 167-170)*, (2023, September), (SPIE Proceedings)
8. Tushar Sarkar,**Manisha** and Rakesh Kumar Singh, Crafting Correlation Structure by Interference. In: Singh, K., Gupta, A.K., Khare, S., Dixit, N., Pant, K. (eds) *ICOL-*

2019. Springer Proceedings in Physics, vol 258, pp 101-103, Springer, Singapore
(Conference proceeding)

9. Aditya Chandra Mandal, **Manisha**, Abhijeet Pathak, Zeev Zalevksy and Rakesh Kumar Singh Reconstructing complex field through opaque scattering layer with structured light illumination, arXiv preprint arXiv:2205.09677 (2022) (Research Article)
10. **Manisha**, Akanksha Gautam and Rakesh Kumar Singh, Ghost Polarimetry, (Under process) (Research Article)

Conferences/Schools

1. Gave an Oral talk at the University of electro communications, Chofu, Japan, “Imaging with Intensity Correlations”
2. **Manisha**, Akanksha Gautam and Rakesh Kumar Singh, Conference on Optics, Photonics and Quantum Optics, Pg. No. 145-146, IIT-Roorkee, India, 10-13 November. (Conference paper)
3. Aditya Mandal, Abhijeet Phatak, **Manisha** and Rakesh Kumar Singh , Twin image removal with deep learning for multi-wavelength digital inline holography, Frontiers in Optics and Photonics 2021 At: IIT Delhi
4. Attended International Conference on Holography Meets Advanced Manufacturing, University of Tartu Estonia and Swinburne University of Technology, Australia (20-22 February 2023)
5. Participated in Training program on Dimensional metrology and applications of Laser Interferometer, CSIR National Physical Laboratory (1-2 December 2022)

6. Attended FiO LS, Joseph A. Floreano Rochester Riverside Convention Center
Rochester, USA (17-20 October 2022)
7. Attended Student Conference on Advances in Optics, SCAO 2021, TIFR Mumbai,
(4 -5 February 2021)