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List of Publications

Refereed Journal Papers

- **B. B. Upadhyay** and K. Sarawadekar, "VLSI Design of Saturation-Based Image Dehazing Algorithm," in IEEE Transactions on Very Large Scale Integration (VLSI) Systems, vol. 31, no. 7, pp. 959-968, July 2023, doi: 10.1109/TVLSI.2023.3272018.
- **B. B. Upadhyay** and K. Sarawadekar, "A Low Cost FPGA Implementation of Retinex Based Low-Light Image Enhancement Algorithm," in IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 71, no. 7, pp. 3503-3507, July 2024, doi: 10.1109/TCSII.2024.3361561.
- **B. B. Upadhyay** and K. Sarawadekar, "VLSI Architecture for Real-Time Video Dehazing in Autonomous Vehicles," in IEEE Transactions on Consumer Electronics. (Submitted)

Refereed Conference Papers

- **B. B. Upadhyay**, S. K. Yadav and K. P. Sarawadekar, "VLSI Architecture of Saturation Based Image Dehazing Algorithm and its FPGA Implementation," 2022 IEEE 65th International Midwest Symposium on Circuits and Systems (MWSCAS), Fukuoka, Japan, 2022, pp. 1-4, doi: 10.1109/MWSCAS54063.2022.9859535.
- **B. B. Upadhyay** and K. P. Sarawadekar, "FPGA Implementation of Dehazing Model Based Low-Light Image Enhancement Algorithm," 2023 IEEE 66th International Midwest Symposium on Circuits and Systems (MWSCAS), Tempe, AZ, USA, 2023, pp. 836-840, doi: 10.1109/MWSCAS57524.2023.10406144.