

Displays

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Sclera biometrics in restricted and unrestricted environment with cross dataset evaluation \$\pm\$

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Highlights

- UnetP-RGB: A deep sclera segmentation model for standard and noisy mobile datasets.
- DeepR: A deep sclera recognition model to compare two vasculatures that outputs in boolean(Y/N).
- DeepR dual-output: Enhanced DeepR with a rejection mechanism that reduces <u>FAR</u>.
- MASDUM: A noisy mobile eye image dataset with sclera, vessel markups and gaze data.
- Cross-dataset evaluation is done to test effectiveness in multiple environments.