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Handheld appliance for shadow elimination in chroma key scenarios using low-processing neural networks

Speaker: Mario Gazzirro

Author(s): Mario Gazzirro

Activity: Short Invited Talk

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Abstract #22:

This work describes a proposal to eliminate the need for additional lighting in a recording studio by using only ambient light and a chroma key screen. The goal is to make the task of removing image elements, such as shadows, more intuitive and efficient for content producers. The system utilizes a data acquisition booth to train a machine learning system with and without shadows. A hundred videos were acquired as training data, and the DeepLight Victory Plus 2 machine learning system was employed. The final results demonstrate the effectiveness of the system in completely eliminating shadows from the processed output, as compared to the original video with shadows.

