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Illumination invariants in deep video expression recognition

Otkrist Gupta, Dan Raviv, Ramesh Raskar

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Highlights

- We develop a scale invariant architecture for generating illumination invariant deep motion features.
- We report state of the art results for video gesture recognition using spatio-temporal convolutional neural networks.
- We introduce an improved topology and protocol for semi-supervised learning, where the number of labeled data points is only a fraction of the entire dataset.

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