

# Local Masking in Natural Videos

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## SUBMISSION DETAILS

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**Presentation Abstract Summary** Visual perception operates in a dynamic, broadband environment; however, most vision research focuses on static, narrowband images. Here, we measure how the temporal dynamics of time-varying natural images may alter masking strength to oriented targets. We find observer thresholds to mostly depend on the spatial characteristics of our time-average videos (e.g., mask energy in the spectral band of the target). Nevertheless, we find that the integration of contrast over time, as defined by a temporal impulse response filter in a Foley (1994) model, also contributes to the detectability of the target.

**Paper Upload (PDF)** [CNN2017\\_Bruno.pdf](#)

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