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A Bio-inspired Synergistic Virtual Retina Model for Tone Mapping

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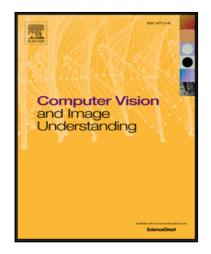
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## Highlights

- Tone mapping-like processing is done by retina through adaptation mechanisms
- We show how a neurophysiological model of the retina can be extended for tone mapping
- Our model considers space and time dynamics, and works for images and videos
- Contrast gain control layer enhances dynamically local brightness and contrast
- This paper provides new insights for designing synergistic computer vision methods

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