Accepted Manuscript

A Bio-inspired Synergistic Virtual Retina Model for Tone Mapping

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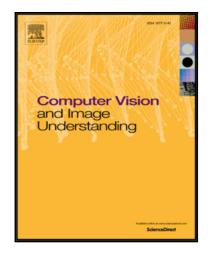
PII:S1077-3142(17)30204-7DOI:10.1016/j.cviu.2017.11.013Reference:YCVIU 2645

To appear in: Computer Vision and Image Understanding

Received date:10 February 2017Revised date:22 November 2017Accepted date:27 November 2017

Please cite this article as: Marco Benzi, María-José Escobar, Pierre Kornprobst, A Bio-inspired Synergistic Virtual Retina Model for Tone Mapping, *Computer Vision and Image Understanding* (2017), doi: 10.1016/j.cviu.2017.11.013

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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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