A Predictive Model for Eye Fixations

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Abstract

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1. Introduction

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2. Related Work

3. Dataset of Eye-Tracking Data

4. Learning a Model

4.1. Training

4.2. Performance

5. Conclusion

References

[1] N. Wilming, S. Onat, J. Ossandón, A. Acik, T. C. Kietzmann, K. Kaspar, R. R. Gamiero, A. Vormberg, P. König. Data from: An extensive dataset of eye movements during viewing of complex images. https://doi.org/10.5061/dryad.9pf75. *Dryad Digital Repository*, 2017.

[2] N. Wilming, S. Onat, J. Ossandón, A. Acik, T. C. Kietzmann, K. Kaspar, R. R. Gamiero, A. Vormberg, P. König. An extensive dataset of eye movements during viewing of complex images. https://doi.org/10.1038/sdata.2016.126. *Nature Scientific Data*, 4(1):160126, 2017.

[3] T. Judd, K. Ehinger, F. Durand, and A. Torralba. Learning to predict where humans look. *Proc. IEEE Int. Conf. Comput. Vis.*, 2009, pp. 2106–2113.

[4] L. Itti and C. Koch. A Saliency-Based Search Mechanism for Overt and Covert Shifts of Visual Attention. *Vision Research*, 40(10-12):1489–1506, 2000.