

Remote Eyetracking with Webcams

Thema:

Remote Eyetracking with Webcams

Art:

MA, FPM

BetreuerIn:

Florian Bockes

Status:

Entwurf

Stichworte:

webcam, eyetracking, remote studies, open source

angelegt:

2020-11-04

Hintergrund

-

Zielsetzung der Arbeit

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Konkrete Aufgaben

Nach Absprache mit dem Betreuer.

Erwartete Vorkenntnisse

Keine

Weiterführende Quellen

[1] Papoutsaki, A., Laskey, J., & Huang, J. (2017, March). Searchgazer: Webcam eye tracking for remote studies of web search. In Proceedings of the 2017 Conference on Conference Human Information Interaction and Retrieval (pp. 17-26).

[2] Dalmaijer, E.S., Mathôt, S., & Van der Stigchel, S. (2014). PyGaze: an open-source, cross-platform toolbox for minimal-effort programming of eye tracking experiments. Behavior Research Methods, 46, 913-921. doi:10.3758/s13428-013-0422-2

[3] Zheng, C., & Usagawa, T. (2018, October). A rapid webcam-based eye tracking method for human

computer interaction. In 2018 International Conference on Control, Automation and Information Sciences (ICCAIS) (pp. 133-136). IEEE.

[4] Semmelmann, K., Weigelt, S. Online webcam-based eye tracking in cognitive science: A first look. Behav Res 50, 451–465 (2018). <https://doi.org/10.3758/s13428-017-0913-7>

[5] Papoutsaki, A., Sangkloy, P., Laskey, J., Daskalova, N., Huang, J., & Hays, J. (2016, January). Webgazer: Scalable webcam eye tracking using user interactions. In Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence-IJCAI 2016 Xu, P., Ehinger, K. A., Zhang, Y., Finkelstein, A., Kulkarni, S. R., & Xiao, J. (2015). Turkergaze: Crowdsourcing saliency with webcam based eye tracking. arXiv preprint arXiv:1504.06755.

Siehe auch folgende Projekte:

<http://www.pygaze.org/>

<https://webgazer.cs.brown.edu>

<https://ait.ethz.ch/projects/2020/EVE/>

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