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A View to a Click: Pupil Size Changes as Input Command in

Eyes-only Human-Computer Interaction

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### ACCEPTED MANUSCRIPT

#### Highlights

- Exploring the mechanism enables all subjects to deliberately expand pupil diameter.
- Users transferred implicit events (pupil dilations) into explicit input requests.
- Controlled interference was achieved even during high cognitive workload.
- Cognitive pupil control may constitute an appropriate input mechanism for HCI.



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