

## **Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies**

Päivi Majaranta, Hirotaka Aoki, Mick Donegan, Dan Witzner Hansen, John Paulin Hansen, Aulikki Hyrskykari, Kari-Jouko Räihä

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Recent advances in eye tracking technology will allow for a proliferation of new applications. Improvements in interactive methods using eye movement and gaze control could result in faster and more efficient human computer interfaces, benefitting users with and without disabilities.

Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies focuses on interactive communication and control tools based on gaze tracking, including eye typing, computer control, and gaming, with special attention to assistive technologies. For researchers and practitioners interested in the applied use of gaze tracking, the book offers instructions for building a basic eye tracker from off-the-shelf components, gives practical hints on building interactive applications, presents smooth and efficient interaction techniques, and summarizes the results of effective research on cutting edge gaze interaction applications.

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