Automated analysis of eye tracking movements

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OBJECTIVE: To present a quick algorithm to automatically analyze the raw data acquired by a photo-oculography (POG) system. METHODS: We developed a simple algorithm for POG data analysis based on an extrapolation of missing values due to blinking and on exclusion of outliers using the robust mean and standard deviation. RESULTS: POG curves of 4 children aged between 1.5 and 7 years are shown before and after automatic analysis. After applying our algorithm, the curves are much smoother. CONCLUSION: Our algorithm allows a quick data analysis and will help to better interpret and analyze POG data.

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