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Developing datasets of infant behavior that are exploitable by AI

§1. 研究成果の概要

The aim of the present project is to develop a dataset of infant looking time studies big and diverse enough to allow the improvement of automatic gaze coding algorithms. We have established an infrastructure for this endeavor, by translating extant experimental software into Japanese and other languages to enable diverse data collection, by establishing a network of participating labs, and by developing two tasks, the first purely visual, the second linking visual and auditory stimuli, for standardized data collection. We have also collected a dataset of 61 adult webcam recordings with the aim to recreate the noise factors potentially rendering automatic infant gaze coding difficult for current automatic algorithms. This dataset will help us to systematically identify the most critical noise factors and improve infant data collection.

【代表的な原著論文情報】

1）Zaadnoordijk, L., Buckler, H., Cusack, R., Tsuji, S., & Bergmann, C. (2021). A Global Perspective on Testing Infants Online: Introducing ManyBabies-AtHome. Frontiers in Psychology, 12, 3811. doi: 10.3389/fpsyg.2021.703234