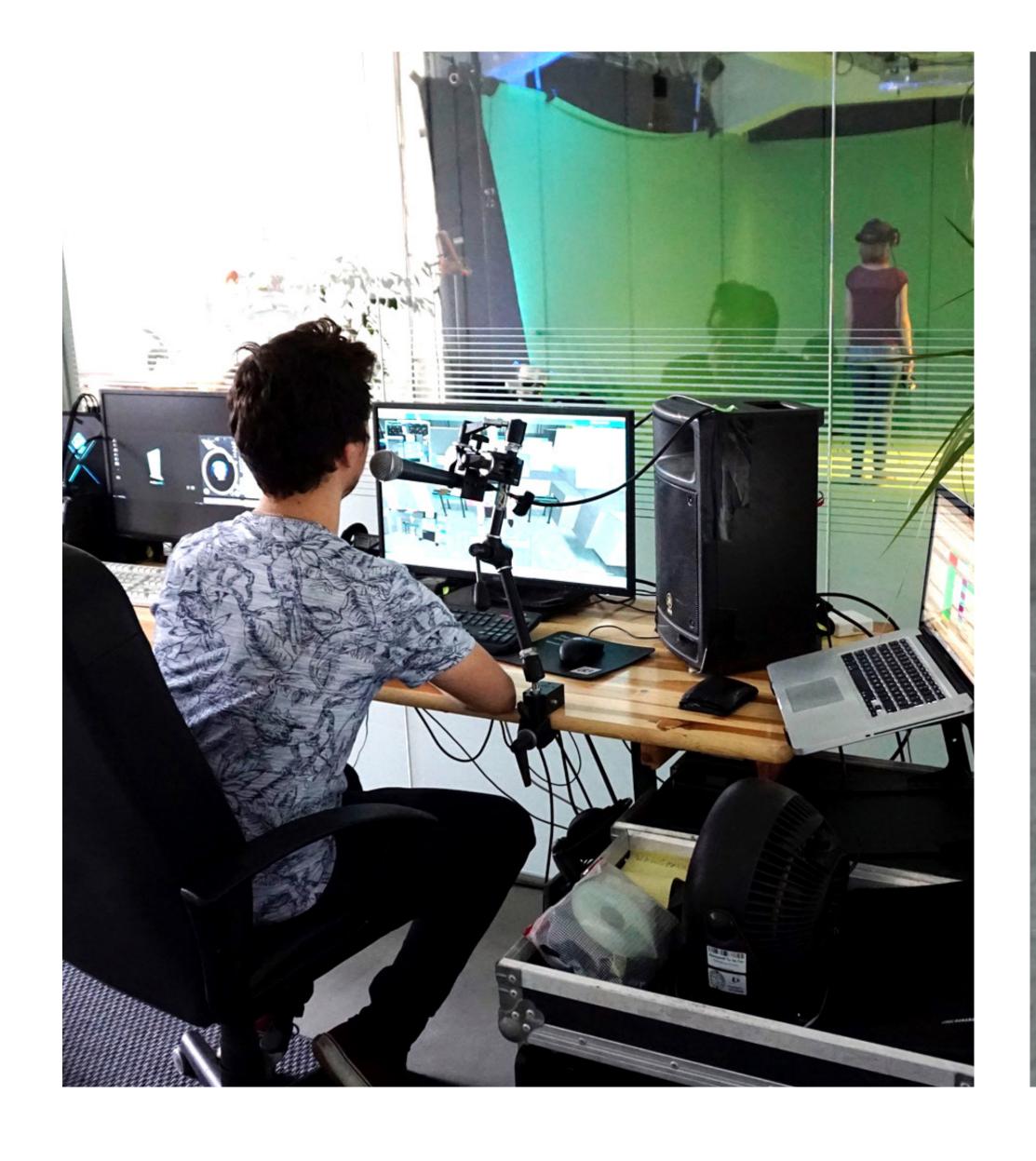
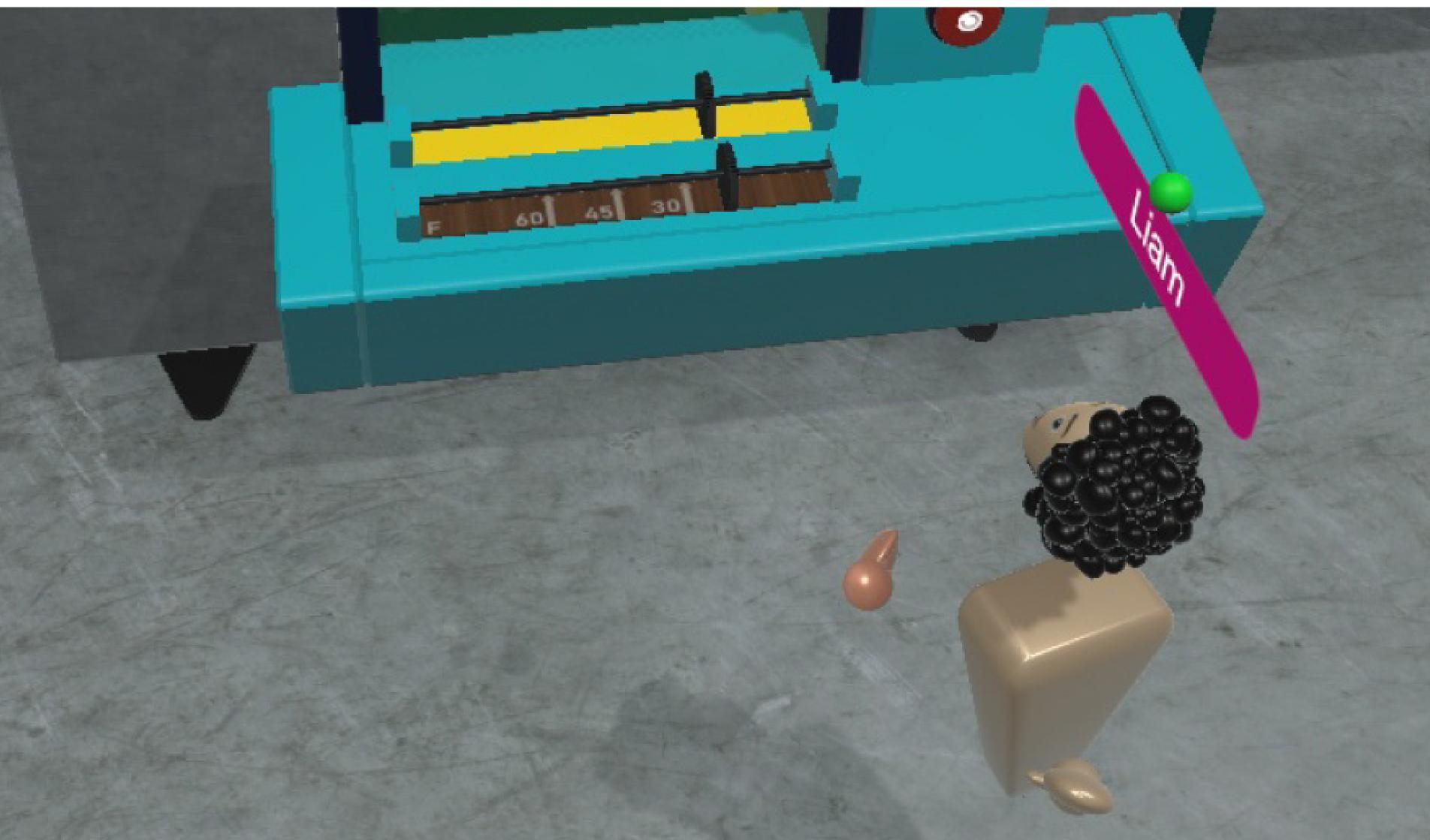
AVATARS FOR CO-LOCATED COLLABORATIONS IN HMD-BASED VIRTUAL ENVIRONMENTS

Jens Herder and Nico Brettschneider, Hochschule Düsseldorf, Germany | Jeroen de Mooij, Weird Reality, Berlin, Germany | Bektur Ryskeldiev, University of Tsukuba, Japan | Poster ID 029





Multi-user virtual reality is transforming towards a social activity that is no longer only used by remote users, but also in large-scale location-based experiences.

Usage of realtime-tracked avatars in co-located business-

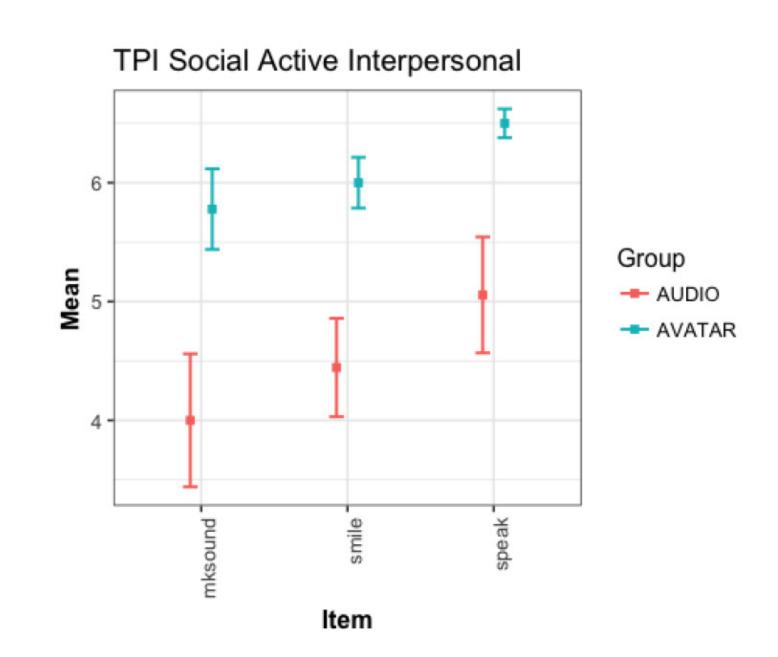
oriented applications with a "guide-user-scenario" is examined for user-related factors of Spatial Presence, Social Presence, User Experience and Task Load. A user study was conducted in order to compare both techniques of a realtimetracked avatar and a non-

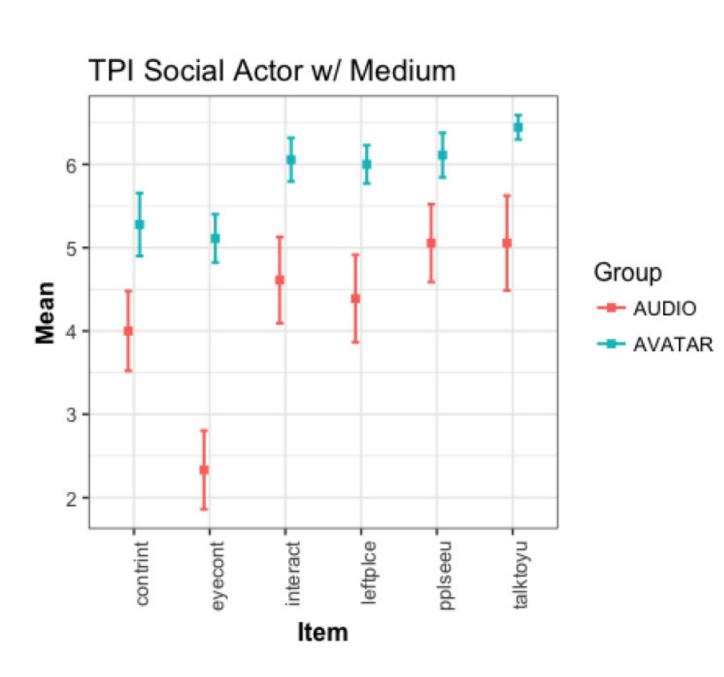
visualised guide. Results reveal that the avatar-guide enhanced and stimulated communicative processes while facilitating interaction possibilities and creating a higher sense of mental immersion for users and engagement.

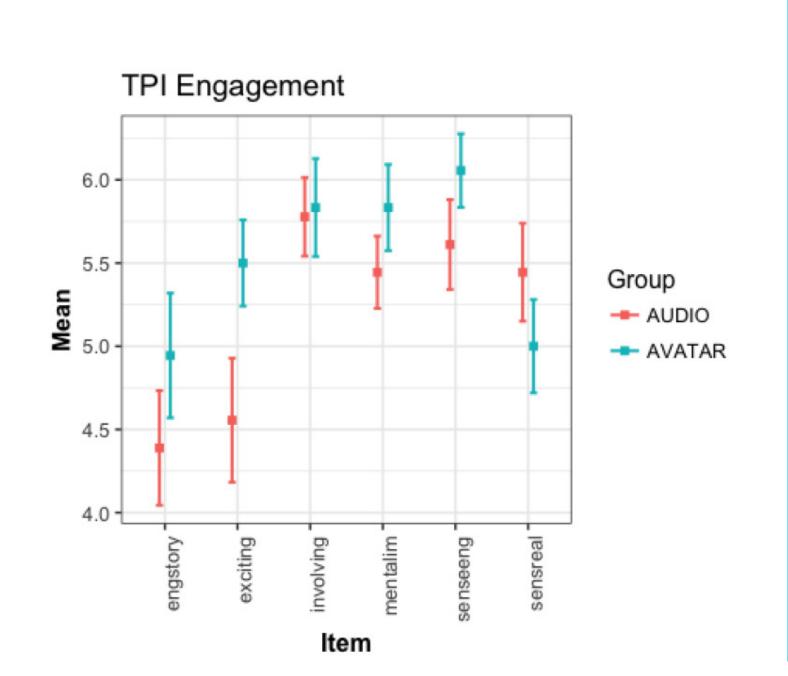
CONCLUSION

Active interpersonal interactions showed up to be stimulated by an Avatar-represented guide in a location-based space compared to audio-only.

This positive effect on participants appeared not only in the will of reacting to the guide by making a sound or smiling as a response, but also as a trigger for self-induced verbal conversation. Simple avatars can be considered as valuable social elements in co-located collaborative interactive virtual environments.







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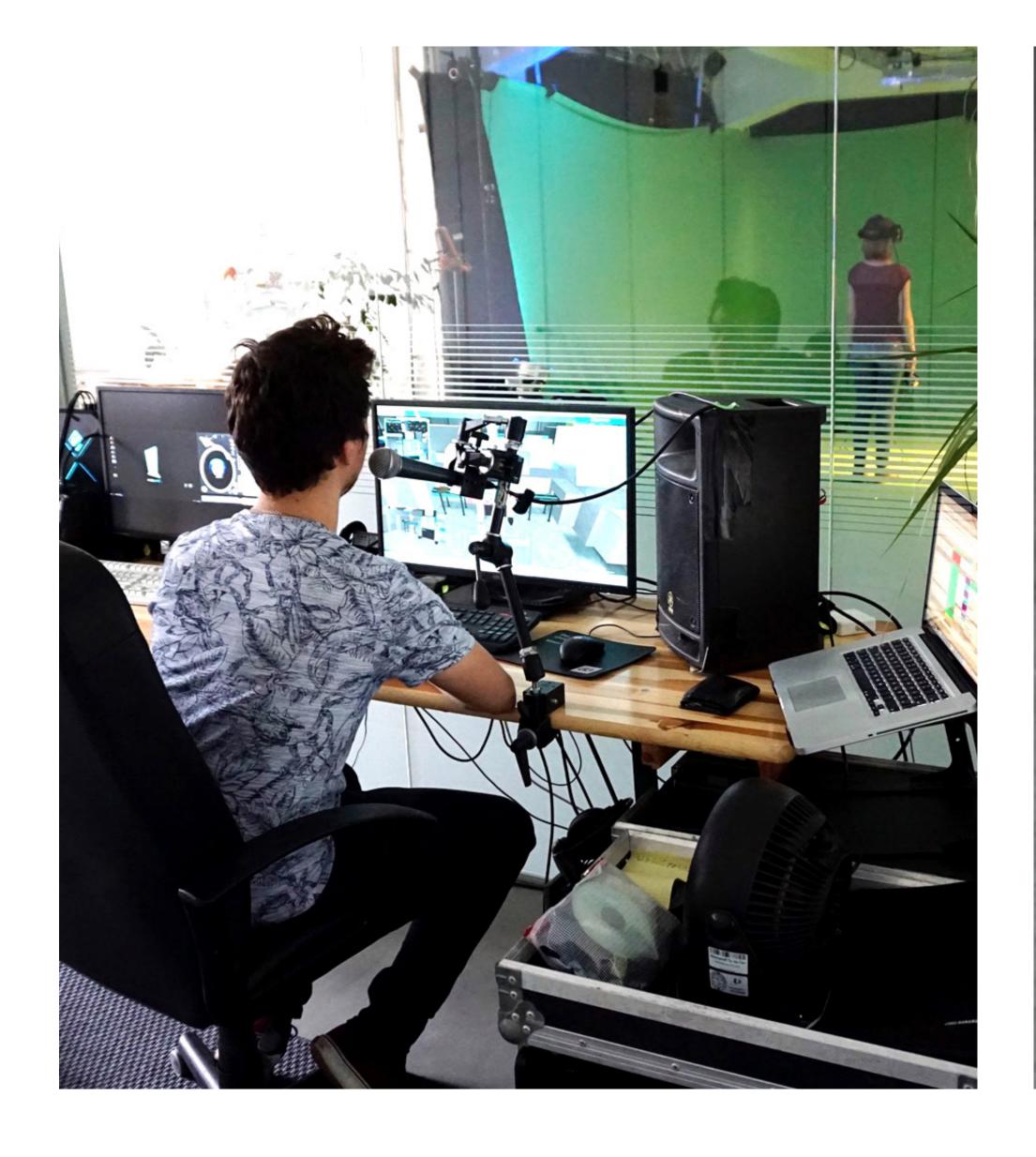
Video and more: http://vsvr.medien.hs-duesseldorf.de/publications/ieeevr2019

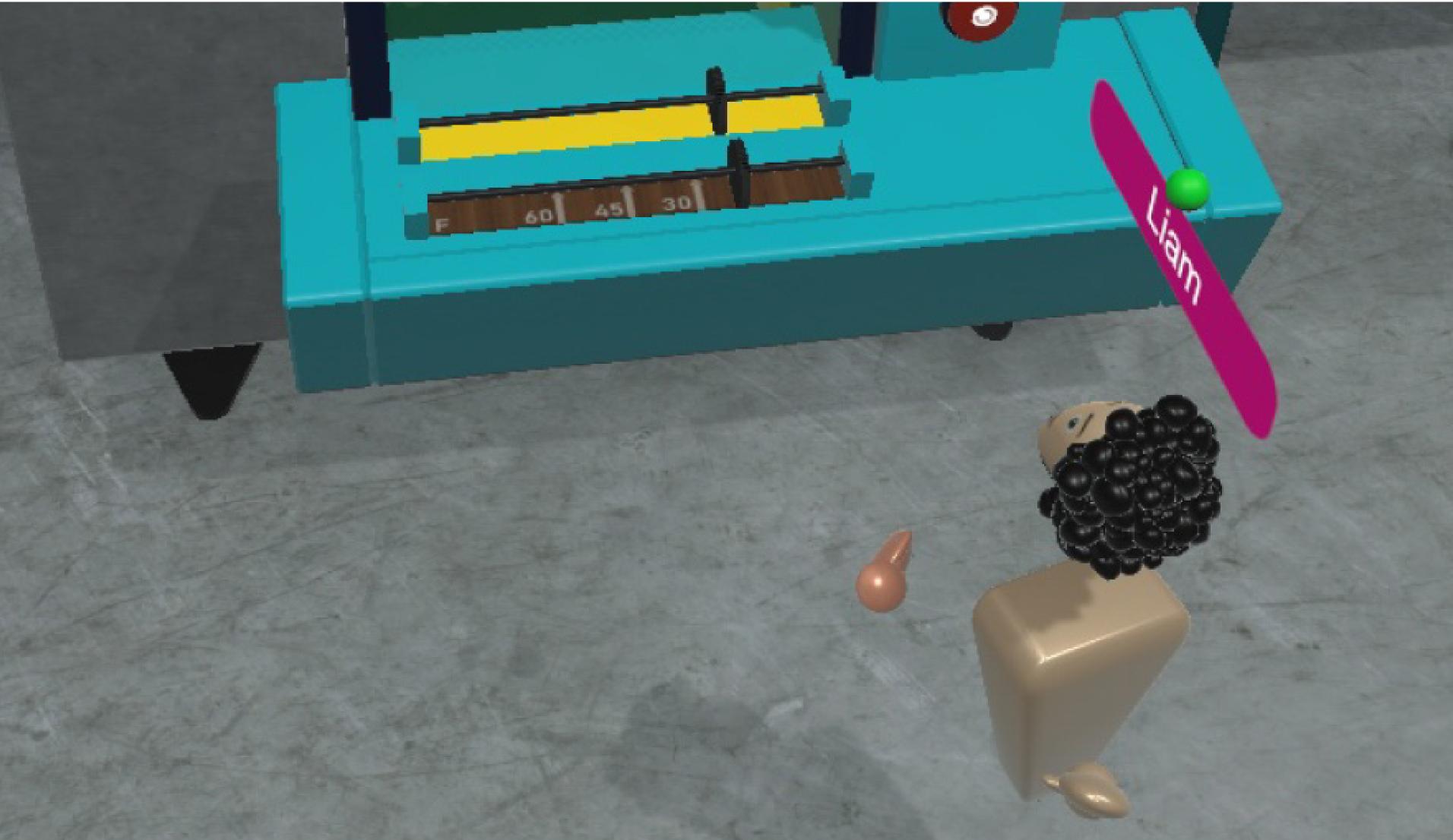
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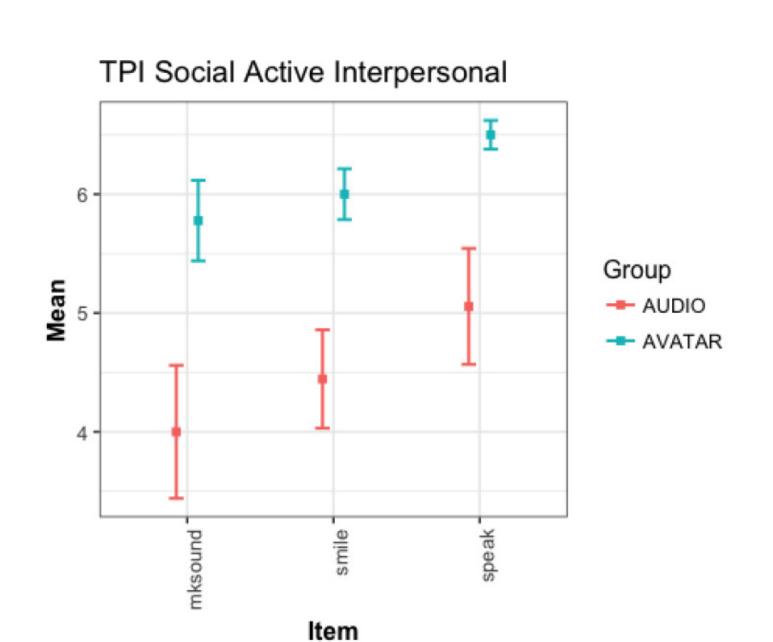


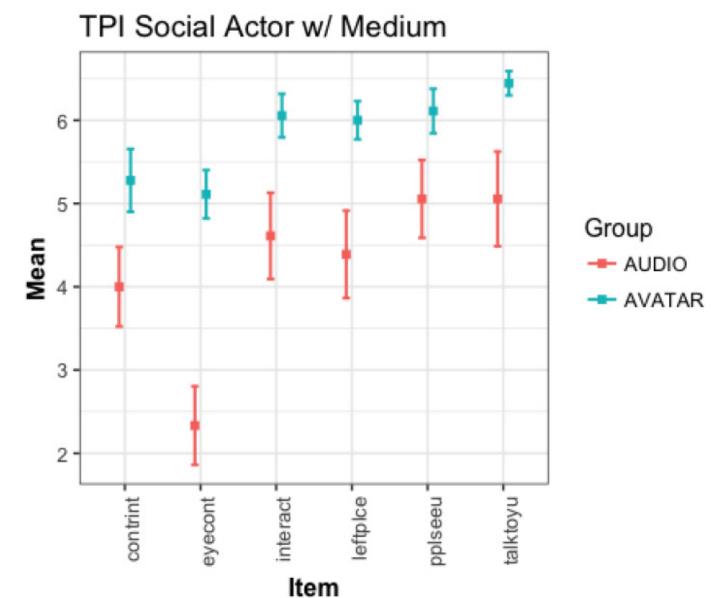
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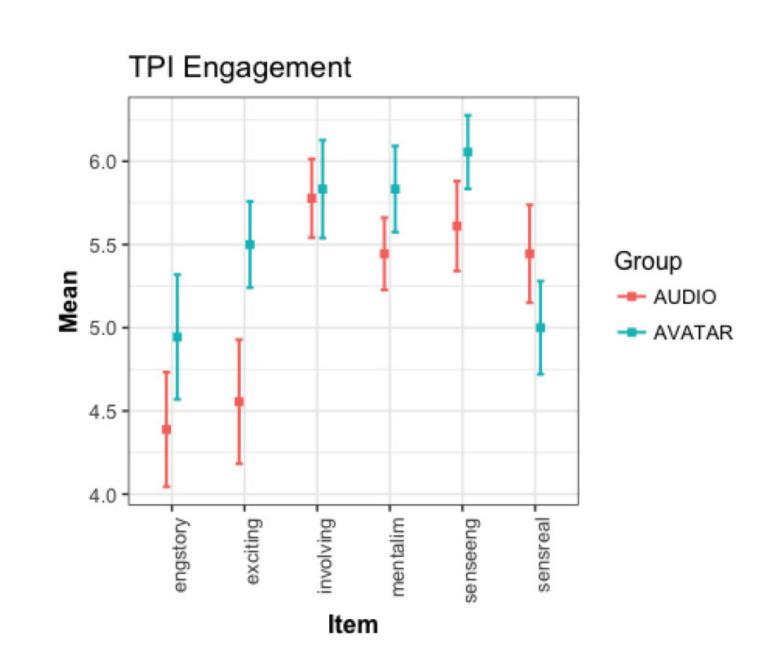
Usage of realtime-tracked avatars in co-located business-oriented

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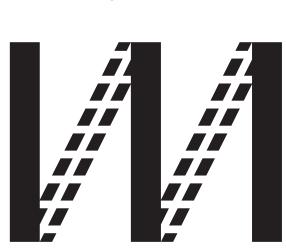
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