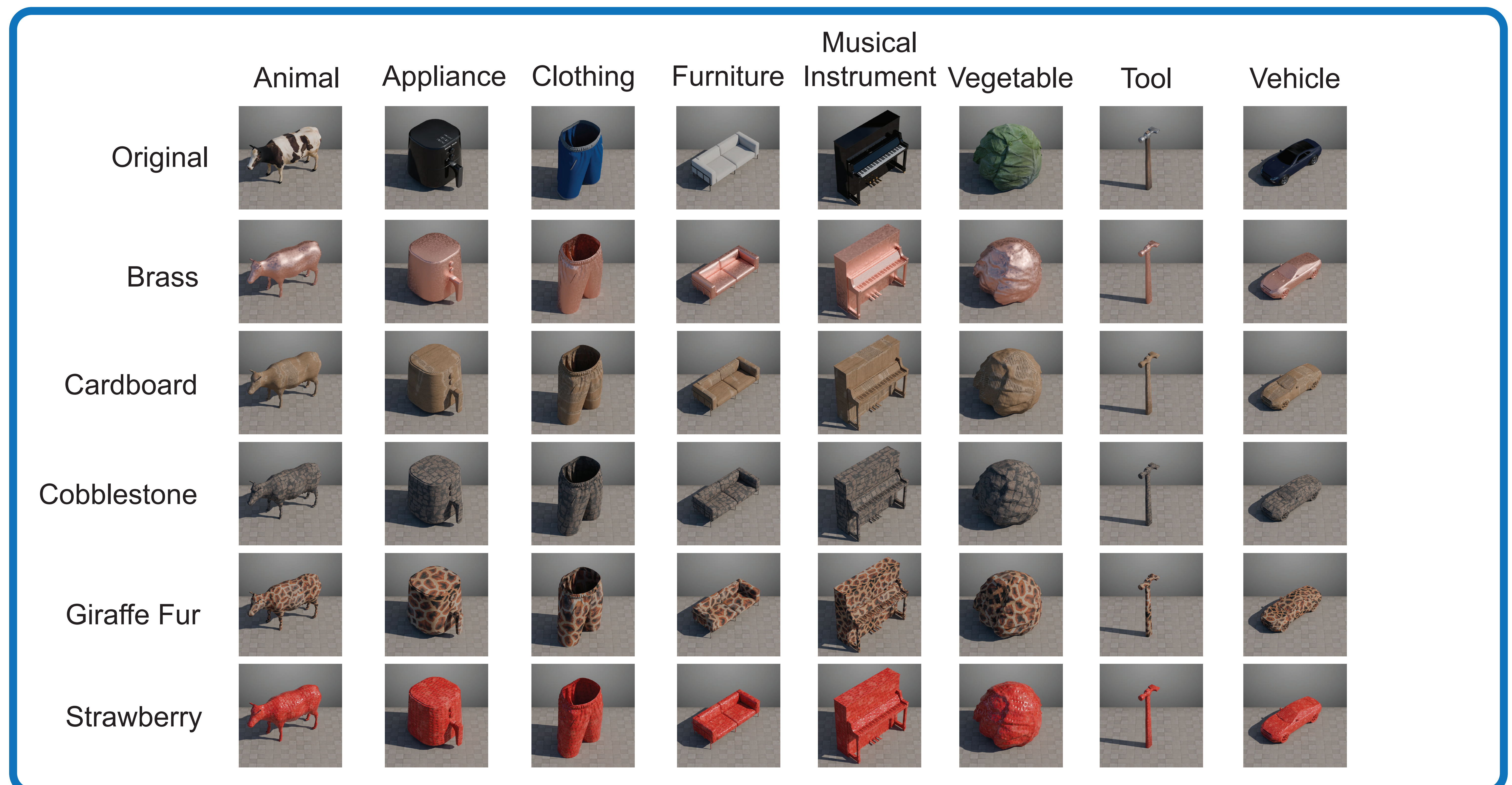


Material appearance affects object recognition

Fatma Kilic, Filipp Schmidt, Celine Aubuchon, Emily A-Izzeddin, Zoe R. Goll, Roland W. Fleming

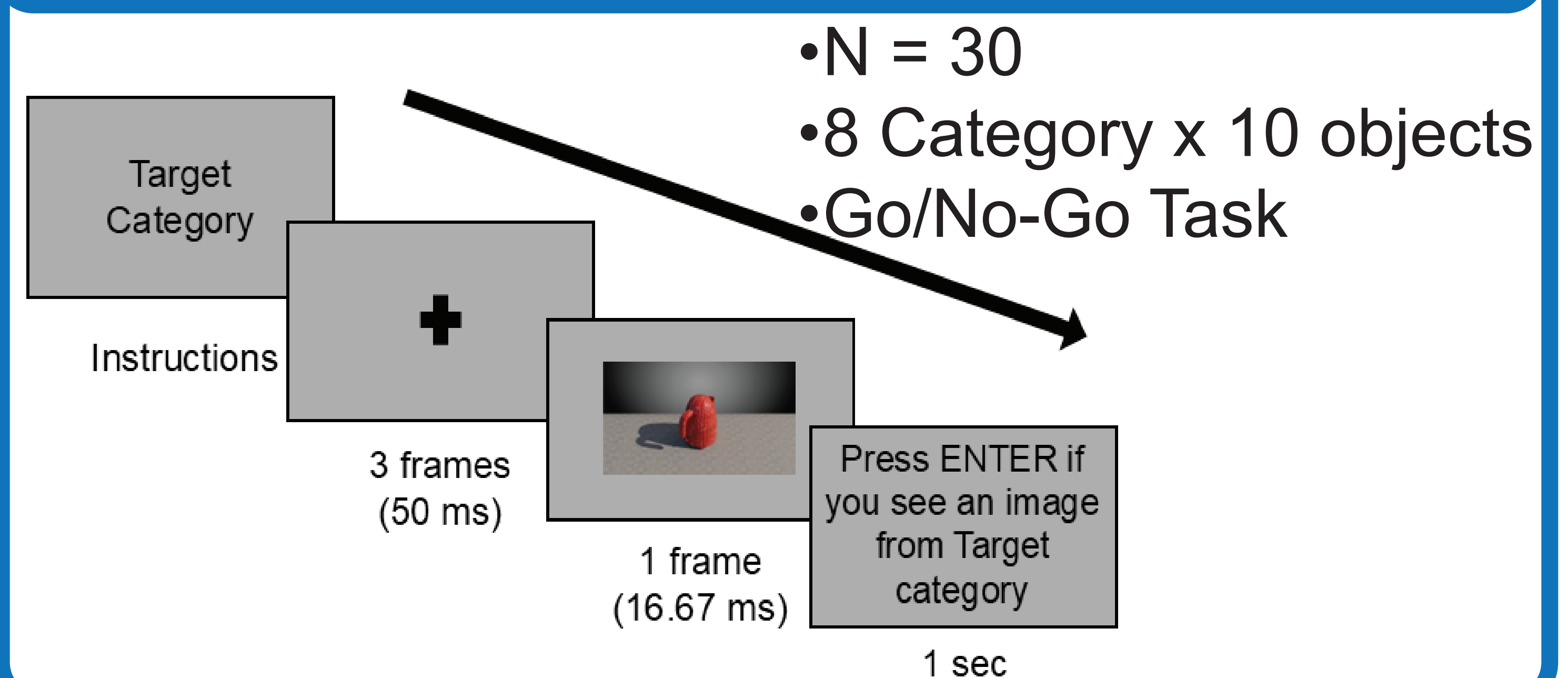


Introduction

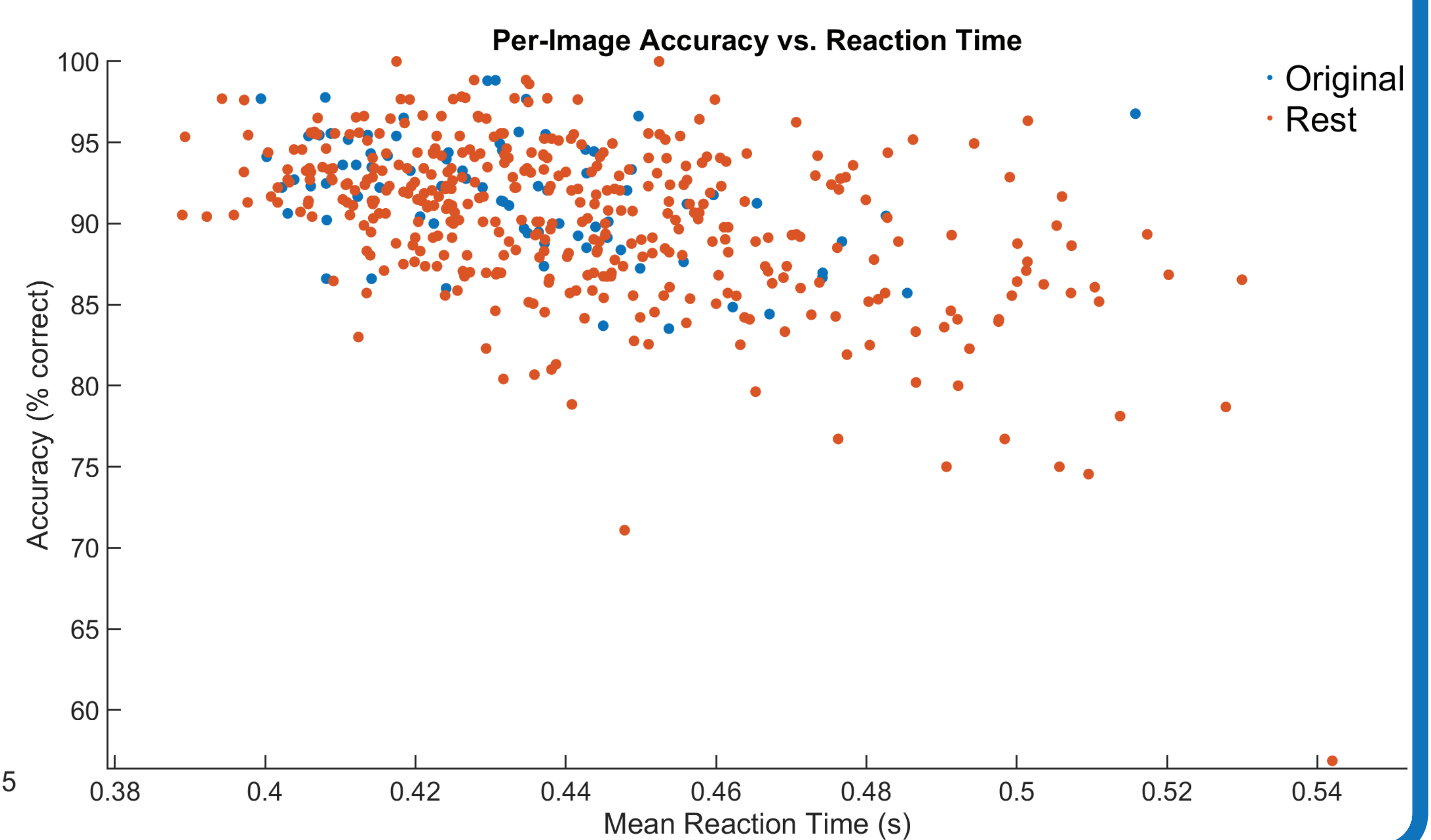
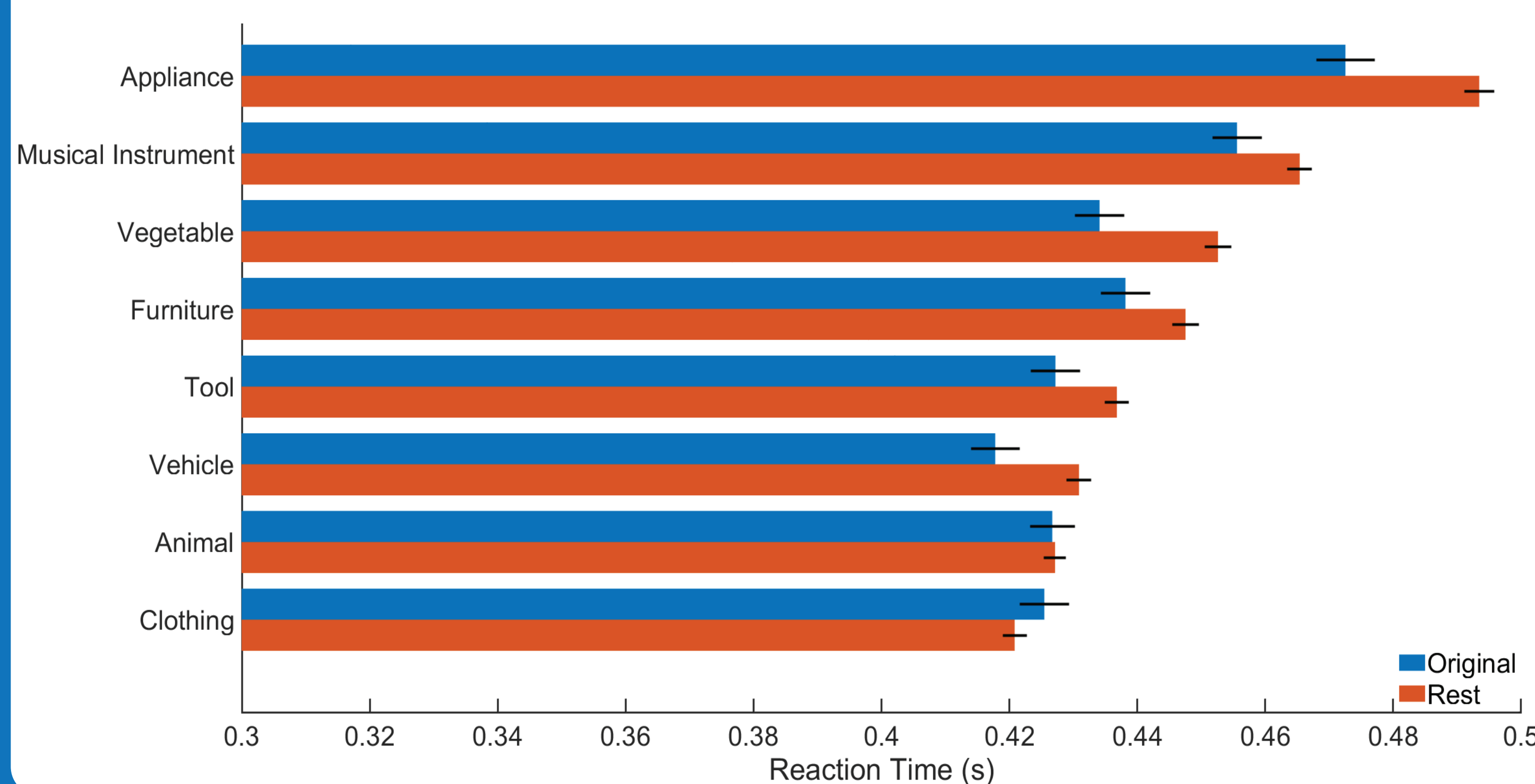
How does changing an object's material affect how quickly and accurately we recognize it?

While features like shape and color have been well studied, material appearance remains underexplored^{1,2}

Method



Key Findings



Conclusion

- Material mismatches can selectively impair recognition, especially for certain object categories
- There is a complex interplay between shape, material, familiarity and other factors that affects the recognition of objects

References & Acknowledgement

(1)Sharan, L., Rosenholtz, R., & Adelson, E. H. (2014). Journal of Vision; (2)Vurro, M., Ling, Y., & Hurlbert, A. C. (2013). Journal of Vision

This research is funded by ERC Advance Grant "STUFF - Seeing Stuff: Perceiving Materials and their Properties" and the DFG (222641018 - SFB/TRR 135 TP C1)

fatma.kilic@psychol.uni-giessen.d