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Investigating the influence of visuospatial stimuli on driver's speed perception: a laboratory study

Anna-Lena Köhler^{1*}, Maren Klatt¹, Iring Koch² and Stefan Ladwig¹

Abstract

Driving at an inappropriate speed is a major accident cause in the EU. Understanding the underlying sensory mechanisms can help to reduce speed and increase traffic safety. The present study investigated the effect of visuospatial stimuli on speed perception using an adaptive countermeasure to speeding based on a manipulation of optic flow. We added red lights on both sides of a simulated road. We expected speed to be perceived as faster when lights moved toward drivers due to increased optic flow, whereas we expected static light stimuli to not alter the optic flow and thus not influence speed perception. Two experiments applied the method of constant stimuli. To this end, participants encountered several trials of two video sequences on a straight road. A reference sequence showed the same traveling speed while test sequences varied around different traveling speeds. Participants indicated which sequence they perceived as faster, leading to the calculation of the point of subjective equality (PSE). A lower PSE indicates that the speed in this experimental condition is perceived as faster than in another experimental condition. Experiment 1A did not show a difference between PSEs of static and oncoming lights. Because participants had counted reflector posts for speed estimation, we removed these reflector posts in Experiment 1B and found a lower PSE for oncoming lights. Thus, such light stimuli may have an effect only in situations without other competing visual stimuli supporting speed perception. Future research should investigate whether speed perception is indeed a primarily visuospatial control task or whether other sensory information such as auditory factors can have an influence as well.

Keywords Speed perception, Safe speed, Traffic safety, Adaptive traffic intervention, Optic flow

Significance statement

Inappropriate speed remains a major cause of accidents. There is a variety of interventions aiming at lowering driving speed inappropriate for a given context. Countermeasures to speeding in the driving infrastructure can target every driver in potential areas. Understanding the mechanisms in speed perception can help to develop

better interventions. The present two experiments investigated the role of visual stimuli in speed perception based on a dynamic light-based intervention that led to lower driving speeds in a previous simulator study and field test (Köhler et al., 2022). Our findings show that oncoming lights lead to lower perceived traveling speed, but only when there are no other salient visual stimuli that support speed perception. In sum, the findings provide valuable insights for future development of countermeasures targeting speeding.

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Speed Of Perception

Etienne Grandjean



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Archives of Philosophy, Psychology and Scientific Methods ,1906 **A Study of the Relation of Accuracy to Speed** Henry Edward Garrett,1922 *Human Factors Guidelines for Road Systems* John L. Campbell,2010 NCHRP report 600 explores human factors principles and findings for consideration by highway designers and traffic engineers The report is designed to help the nonexpert in human factors to consider more effectively the roadway user s capabilities and limitations in the design and operation of highway facilities

Frontiers in Neural Circuits and Frontiers in Neurology Desdemona Fricker,Mathieu Beraneck,Michele Tagliabue,K. J. Jeffery,2021-02-26 In this 2nd edition the following article has been added Fricker D Beraneck M Tagliabue M and Jeffery KJ 2020 Editorial Coding for Spatial Orientation in Humans and Animals Behavior Circuits and Neurons Front Neural Circuits 14 619073 doi 10 3389 fncir 2020 619073

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designs for all

Columbia University Contributions to Philosophy and Psychology Columbia University, Naomi Norsworthy, 1906

Simulators for Transportation Human Factors Mark S. Young, Michael G. Lenné, 2017-07-06

Simulation continues to be a growth area in transportation human factors. From empirical studies in the laboratory to the latest training techniques in the field, simulators offer myriad benefits for the experimenter and the practitioner. This book draws together current trends in research and training simulators for the road, rail, air, and sea sectors to inform the reader how to maximize both validity and cost effectiveness in each case. *Simulators for Transportation Human Factors* provides a valuable resource for both researchers and practitioners in transportation human factors on the use of simulators, giving readers concrete examples and case studies of how simulators have been developed and used in empirical research as well as training applications. It offers useful and usable information on the functional requirements of simulators without the need for any background knowledge on the technical aspects, focusing on the state of the art of research and applications in transport simulators rather than the state of the art of simulation technology. The book covers simulators in operational terms instead of task simulation modelling and provides a useful balance between a bottom-up academic approach and a top-down practical perspective.

Haptics: Science, Technology, Applications Hasti Seifi, Astrid M. L. Kappers, Oliver Schneider, Knut Drewing, Claudio Pacchierotti, Alireza Abbasimoshaei, Gijs Huisman, Thorsten A. Kern, 2022-05-19

This open access book constitutes the proceedings of the 13th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2022 held in Hamburg, Germany, in May 2022. The 36 regular papers included in this book were carefully reviewed and selected from 129 submissions. They were organized in topical sections as follows: haptic science, haptic technology, and haptic applications.

The Problem of Vocational Guidance George Edmund Myers, 1927

Measurements of Twins Edward Lee Thorndike, 1905

Human Aspects of IT for the Aged Population Qin Gao, Jia Zhou, 2025-05-28

The three-volume set LNCS 15809/15811 constitutes the thoroughly refereed proceedings of the 11th International Conference on Human Aspects of IT for the Aged Population ITAP 2025 held as part of the 27th HCI International Conference on Human Computer Interaction HCII 2025 which took place in Gothenburg, Sweden, in June 2025. The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions. The three volumes cover topics as follows: Part I: Designing Older User Experiences, Social Connectedness and Psychological Support; Part II: Smart Homes and Communities for Aging in Place, eHealth for Aging; Part III: Older Adults and the Smart City, Technology Adoption, IT Literacy, and the Digital Divide, Living with AI.

Silent Reading, with Special Reference to Methods for Developing Speed John Anthony O'Brien, 1921

Psychology of Elementary School Subjects Homer Blosser Reed, 1927

Some Factors in the Development of Speed in Silent Reading John Anthony O'Brien, 1921

Fitting the Task to the Man Etienne Grandjean, 1980

Textbook in ergonomics discusses physical capacity and limitations, other factors taken into consideration when designing or evaluating the work environment for occupational health.

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