

Driving speed changes and subjective estimates of time savings, accident risks and braking

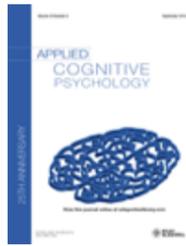
1. Ola Svenson*

Article first published online: 31 MAY 2008

DOI: 10.1002/acp.1471

Copyright © 2008 John Wiley & Sons, Ltd.

Issue



Applied Cognitive Psychology

Volume 23, Issue 4, (/doi/10.1002/acp.v23:4/issuetoc) pages 543–560, May 2009

Additional Information

How to Cite

Svenson, O. (2009), Driving speed changes and subjective estimates of time savings, accident risks and braking. *Appl. Cognit. Psychol.*, 23: 543–560. doi: 10.1002/acp.1471

Author Information

Risk Analysis, Social and Decision Research Unit, Department of Psychology, Stockholm University, Stockholm, Sweden

Email: Ola Svenson (osn@psychology.su.se)

*Risk Analysis, Social and Decision Research Unit, Department of Psychology, Stockholm University, S-106 91 Stockholm, Sweden.

Publication History

1. Issue published online: 13 MAR 2009
2. Article first published online: 31 MAY 2008

- Abstract
- [References \(/doi/10.1002/acp.1471/references\)](/doi/10.1002/acp.1471/references)
- [Cited By \(/doi/10.1002/acp.1471/citedby\)](/doi/10.1002/acp.1471/citedby)

[Get PDF \(136K\) \(/doi/10.1002/acp.1471/pdf\)](#)

Abstract

Participants made decisions between two road improvements to increase mean speed. Time saved when speed increased from a higher driving speed was overestimated in relation to time saved from increases from lower speeds. In Study 2, participants matched pairs of speed increases so that they would give the same time saving and repeated the bias. The increase in risk of an accident with person injury was underestimated and the increase in risk of a fatal accident grossly underestimated when speed increased. The increase of stopping distance when speed increased was systematically underestimated. In Study 3, the tasks and results of Study 2 were repeated with engineering students. When forming opinions about speed limits and traffic planning, drivers, the public, politicians and others who do not collect the proper facts are liable to the same biases as those demonstrated in the present study. Copyright © 2008 John Wiley & Sons, Ltd.

[Get PDF \(136K\) \(/doi/10.1002/acp.1471/pdf\)](#)

More content like this

Find more content:

- [like this article \(/advanced/search/results?articleDoi=10.1002/acp.1471&scope=allContent&start=1&resultsPerPage=20\)](/advanced/search/results?articleDoi=10.1002/acp.1471&scope=allContent&start=1&resultsPerPage=20)

Find more content written by:

- [Ola Svenson \(/advanced/search/results?searchRowCriteria\[0\].queryString='Ola Svenson'&searchRowCriteria\[0\].fieldName=author&start=1&resultsPerPage=20\)](/advanced/search/results?searchRowCriteria[0].queryString='Ola Svenson'&searchRowCriteria[0].fieldName=author&start=1&resultsPerPage=20)