



The history of road safety research: A quantitative approach [☆]



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ABSTRACT

In this paper we provide a global description, in quantitative terms, of the developments in road safety research from the early 1900s until 2010. To this end, electronic databases have been searched and papers matching search criteria were selected for analysis. Word and co-word frequencies of key-words in all the titles and abstracts of these publications were collected and analysed. In this study, we explored the possibility to identify historical trends in road safety research topics. Furthermore we explored whether the important paradigms concerning the history of road safety research as presented in the literature can be confirmed on quantitative grounds. It is concluded that the first results are promising: varying trends over time could be identified in the selected topics, which are generally in line with the different road safety paradigms. Finally, a number of limitations of the present study are listed, including the incompleteness of the currently used dataset.

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1. Introduction

Over time, a number of authors have provided overviews of road safety research. However, these reviews generally focused on either a limited time period, or on specific areas of interest. None of these covered the history of road safety research in a comprehensive and quantitative way.

Early reviews of road safety and traffic research are provided by [Glanville \(1955\)](#) and [Haight \(1964\)](#). Glanville described the increase in numbers of vehicles and an increasing traffic flow, accompanied by a growth of road casualties between 1910 and 1953, and summarized several lines of research in the area of speeds and stopping times at intersections, pedestrian crossings, motorcycle helmets, and slippery roads. [Haight \(1964\)](#) compiled an annotated bibliography of scientific research in road traffic and safety, containing about 250 publications on road safety published between 1915 and 1964 on various topics but with a focus on mathematical modeling and methodologically and statistically oriented papers. Finally, [Morm \(2007\)](#) has looked into road safety issues that had been topics in PIARC (Permanent International Association of Road Congresses) conferences in the period 1908–1938.

The more general history of transport has been the topic of a number of reviews published during the past ten years. These include various transportation modes and automobility ([Armstrong, 1998](#); [Morm, 2003](#)), but none of these overviews included road safety issues or the development of road safety research.

In [OECD \(1997, pp. 90–92\)](#) it is mentioned that “a review of past developments reveals that road safety work has mainly been practical in nature. Indeed, the need for theories, models and research methodologies originated from practice, where

[☆] Editor's Note: This paper was invited and peer-reviewed for a special section on History of Traffic Psychology. The special section included a wide range of manuscript styles, from those typical of this journal to other styles just as important for sharing the discipline's history. Authors contributed reasoned viewpoints from experience and literature on where the discipline has come from and where it may be heading, to an investigation of trends and topics in the discipline since the early 20th century.

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