International Cycling Safety Conference (ICSC)

International Cycling Safety Conference (ICSC) er en internasjonal konferanse for forskere og fageksperter som jobber med trafikksikkerhet for syklister. Konferansen ble i 2022 arrangert i Dresden 9-10. november.

Konferansen hadde noen fellespresentasjoner og flere parallelle sesjoner. Dette gjorde det mulig å velge sesjoner med innlegg som oppleves som særlig relevante. Jeg hadde fokus på innlegg som var relevant inn i mine arbeidsoppgaver, se under.

Noen relevante innlegg

Under følger en oversikt over noen av innleggene som var relevante, samt viktige funn.

Mileage-based accident risks of pedelec riders

K. Gaster, T. Gehlert

Highlights:

- calculated mileage-based accident risks for pedelec and bicycle riders
- younger & older pedelec riders at higher mileage-based risk of accident involvement
- older riders at highest mileage-based risk of becoming seriously injured or killed
- elderly pedelec riders are at high risk and measures should be taken
- younger pedelec riders few in numbers, but with higher mileage-based accident risk

Development of German pedelec (and bicycle) accidents between 2012 and 2020

K. Schleinitz, T. Petzoldt

Highlights:

- more than 90,000 police reported injury accidents from three federal German states
- differences (and similarities) between pedelec and bicycle accidents mostly stable
- higher accident severity for pedelec riders compared to cyclists throughout the years
- consistently higher proportion of single vehicle accidents for pedelec riders
- decrease in mean age of the involved pedelec riders over time

Data for evidence: Defining, collecting and analysing specific data from pedelec accidents as an example of individual, targeted road safety work for new forms of mobility

T. Panwinkler

- A mixed method approach was used, reading and analysing 4,196 accident descriptions
- Qualitative analyses reveal existence of 13 pedelec-specific causes of accidents
- Quantitative analyses show: a) most conflicts occurred when pedelec was overlooked
- b) Highest accident severities found in connection with pedelec user's mistakes
- c) Accidents on cycling facilities were less severe than on the carriageway

Risk perception and differences in self-reported cycling behavior between electricand conventional-bike riders in Denmark (#114)

K. H. Janstrup, S. A. Useche, M. Møller, F. W. Siebert

Highlights:

- 483 conventional bike (c-bike) and 74 electric bike riders were surveyed in Denmark
- Their risk perception and self-reported cycling behavior were assessed
- Higher safety-positive behavior is found for e-bike riders compared to c-bike riders
- E-bike riders report a higher knowledge of the traffic law compared to c-bike riders
- A higher risk perception is found for e-bike riders compared to c-bike riders

E-cargo bicycles: on cycle path of carriageway?

R. Hulshof, P. Schepers

Highlights:

- The Netherlands is working on an Approval Framework for Light Electric Vehicles (LEV framework).
- This includes heavy e-cargo bikes. The question is which place on the road is best for the traffic safety.
- In this study, options are compared with the zero option, in which the cycle path remains the starting point for the place of the heavy e-cargo bike on the road.

Single-bicycle crashes in Finland - characteristics, risk factors, and safety recommendations

R. Utriainen, M. Pöllänen, S. O'Hern, N. Sihvola

Highlights:

- Study analyses fatal injuries to cyclists caused by single-bicycle crashes (SBCs)
- SBCs commonly involved people aged 60–79, males, and cyclists not wearing a helmet
- Males were more often involved in SBCs than other cyclist crashes
- Risk factors related to illness and alcohol were highlighted in SBCs
- Human factors were the most reported risk factors before the bicycle and equipment

Wider view over bicycle accidents: Complementing and extending bicycle accident statistics in urban areas using surveys

L. Ringel, C. Kielhauser, B. T. Adey

- Our work shows that 86% of cycling accidents were not reported to the police.
- Actual accident type distributions vary from those known to the police.
- More efforts should be made to gather knowledge about not police reported accidents.
- Adding survey data to police reports helps to reveal key bicycle accident locations.
- The study shows a very clear difference in risk perception and actual risk.

Drivers overtaking cyclists on rural roads: How does visibility affect safety? Results from a naturalistic study

A. Rasch, Y. Tarakanov, G. Tellwe, M. Dozza

Highlights:

- Smart traffic sensors collected naturalistic data on a rural road in Sweden.
- We estimated lateral clearance and passing speed from drivers overtaking cyclists.
- In contrast to speed, lateral clearance decreased clearly under low visibility.
- A solid centerline may have caused more dangerous passing from the cyclist's view.

Passing distance, speed and perceived risks to the cyclist and driver in passing

events

E. Rubie, N. Haworth, N. Yamamoto

Highlights:

- Non-cyclist drivers had poorer attitudes towards cyclists than cyclist-drivers
- Poorer attitudes did not lead to lower perceived risk for the cyclist
- Cyclist-drivers perceived higher risks to the cyclist in the passing event
- Perceived risk to the driver was higher for female than male driver participants
- Higher speeds increased perceived risk for both the portrayed cyclist and the driver

Subjective Safety of Bicycle Infrastructure at Intersections and Roundabouts

S. Wachholz, D. Friel, T. Werner, L. Zimmermann, R. Stark

Highlights:

- qualitative research on subjective safety for cyclists
- 4 different junction designs presented in a virtual environment
- most participants preferred Protected Intersection design

Cyclists' choice of lateral position and feeling of safety between tram tracks, sharrows and parked cars

S. Ruf, J., M. Druba

- Two online studies carried out on cyclists' lane positions and subjective safety
- First experiment to jointly investigate parked cars, sharrows, tram tracks & norms
- More central positions chosen in presence of parked cars, sharrows and tram tracks
- Cyclists felt safer in absence of parked cars and tram tracks
- Cyclists felt safer in the presence of sharrows

A mixed-methods exploration of the factors affecting bike riding participation in Victoria, Australia

L. K. Pearson, S. Reeder, B. J. Gabbe, B. Beck

Highlights:

- Most people (78%) living in Greater Melbourne, Victoria, are interested in riding a bike.
- The top three barriers reported by potential cyclists relate to having to ride a bike on the road.
- There was significant variance in the barriers to cycling reported by different population groups.
- Despite variance, all groups reported safety-related factors as their biggest barriers to cycling.

An experiment on the lateral steering behaviour of cyclists on narrow bidirectional cycle tracks

P. Schepers, E. Theuwissen, W. Daamen, M. Hagenzieker, M. Nabavi4

- Cyclists ride off the road in approximately a quarter of all single-bicycle crashes
- An increase of cycle track width causes cyclists to ride further away from the verge
- Cyclists keep more distance from oncoming cyclists at wider cycle tracks
- Sufficiently wide cycle track pavement is essential for cycling safety