



International Co-operation on  
Theories and Concepts in  
Traffic Safety

# 32<sup>nd</sup> ICTCT Conference in Warsaw, Poland on 24<sup>th</sup> – 25<sup>th</sup> October 2019

## Vision zero for traffic fatalities and serious injuries – research questions and challenges

The conference is organised in close co-operation with the Faculty of Civil Engineering, Warsaw  
University of Technology (<https://www.il.pw.edu.pl/index.php/en/>).

32<sup>nd</sup> ICTCT Conference is under the patronage of Mr Rafał Trzaskowski, Mayor of the City of Warsaw.

### PROGRAMME

#### 23<sup>rd</sup> October

1900 Welcome Reception / Registration

#### 24<sup>th</sup> October

0800 Registration

#### OPENING SESSION (MAIN WUT BUILDING)

0900 Welcome:  
Piotr Olszewski, Chair of Organising Committee, WUT  
Robert Soszyński, Deputy Mayor of Warsaw  
Stijn Daniels, President of ICTCT  
Andrzej Garbacz, Dean of Civil Engineering Faculty

Chair: tba

0930 Keynote Speech on Vision Zero, Lars Ekman, Sweden

1010 Improvement of road safety in Warsaw, Michał Domaradzki, Poland

1030 Coffee break

#### ATTITUDES AND BEHAVIOUR (DROWSINESS) - (CZLIITT BLDG)

Chair: tba

1100 Testing the convergent- and predictive validity of a belief-based scale for attitude towards personal safety on public bus/minibus for long-distance trips in Ghana: A SEM analysis, Enoch F. Sam, Ghana

1120 Regular driving violators are more resistant to deterrent effects of speed penalties: Evidence from Iran, Mohsen Fallah Zavareh, Iran

1140 How long it takes to the first drowsiness state: an exploratory analysis, Sónia Soares, Portugal

1200 The estimation of drowsiness under different conditions based on behaviour observations from a simulator study, Clemens Kaufmann, Austria

1220 **Poster pitch**

1 *Driver inattention: Differences between professional and non-professional drivers, António Couto, Portugal*

2 *The problem of sharing road space by conventional and autonomous vehicles - safety aspects, Ireneusz Celiński, Poland*

3 *Comfort and safety challenges of automated driving: Literature review, António Lobo, Portugal*

4 *Measuring road safety performance indicators in the Republic of Serbia – current state and future challenges, Dalibor Pešić, Serbia*

5 *Benchmarking adverse weather effects on road casualty in 7 urban areas of Poland, Ruth Bergel-Hayat, France*

6 *Identification of conditions and definition of strategic goals of national and regional road safety programs in Poland for the coming decade, Kazimierz Jamroz, Poland*

1235 Lunch break

**Information for the first two sessions:** on 24<sup>th</sup> October the opening session (900-1030) will be held in the Main WUT Building (at Plac Politechniki 1). All the other sessions (from 1030 on) will be held in the CZLIITT Building (at Rektorska 4) see the map at: [ictct.il.pw.edu.pl](http://ictct.il.pw.edu.pl)

## VULNERABLE ROAD USERS

Chair: tba

- 1330 Media coverage of bicycle accidents in the Netherlands, Paul Schepers, Netherlands
- 1350 Exploring speeds of young e-cyclists in urban areas; an observational study from Israel, Wafa Elias, Israel
- 1410 Risk assessment of pedestrian and cyclist falls in snowy and icy conditions, Martin Bärwolff, Germany
- 1430 Pedestrians' route choice during winter conditions, Magne Fossum, Norway
- 1450 Identification of factors affecting cyclist fatalities using association analysis, Paweł Włodarek, Poland
- 1510 Analysis of drivers' eye movements ahead of pedestrian crossings: the case study of Olomouc, Anton Pashkevich, Czechia

1530

### **Poster pitch**

- 7 *Pedestrian fatality risk as a function of a tram impact speed, Lukasz Franek, Poland*
- 8 *Methods and results of road safety inspection of a high number of unsignalised pedestrian crossings, Tomasz Mackun, Poland*
- 9 *Pedestrians' emotions in traffic interactions: expectations towards automated vehicles, Anja Katharina Huemer, Germany*
- 10 *How many cyclists die when cycling? A study on non-crash causes of cyclists' deaths, Michal Bil, Czechia*
- 11 *Vehicle drivers, pedestrians and cyclists on roundabouts in terms of road traffic safety - case study from Upper Silesian and Masovian Voivodeships, Elżbieta Macioszek, Poland*
- 12 *Detecting atypical motion behavior of pedestrians for early awareness of potential safety-critical situations, Hagen Saul, Germany*
- 13 *Understanding pedestrian-vehicle encounters at unsignalised pedestrian crossings, Paweł Dąbkowski, Poland*

1545

## POSTER SESSION I

- 1615 Coffee break

## SPEED PERCEPTION

Chair: tba

- 1645 Speed perception by drivers as dependent on urban street design, Victoria Gitelman, Israel
- 1705 How fast would you (or should you) drive here?, Jiri Ambros, Czech Republic
- 1900 Conference Dinner

## 25<sup>th</sup> October

0830 Registration

### SPECIAL SESSION: SURROGATE MEASURES OF SAFETY

Chair: tba

0900 How humans perceive the severity of traffic events?, Oksana Yastremska, Sweden

0920 Detecting evasive action from trajectory data, Carl Johnsson, Sweden

0940 The simulation of potential crashes as a new safety performance conflict-based indicator, Vincenzo Pasquale Giofrè, Italy

1000 Investigating a proactive approach for bicyclists safety by using GPS data, Sylwia Pogodzinska, Poland

1020 Safety of roundabouts with mixed traffic: a video analysis of cyclist behaviour, Giulia Pulvirenti, Italy

1040 Probability based severity of conflicts using bivariate Extreme Value models, Attila Borsos, Hungary

1100 **Poster pitch**

14 *Effects of countdown timers on traffic safety at signalized intersection, Marcin Kłos, Poland*

15 *On-board data collection and road safety diagnosis, Claire Naude, France*

16 *Cycling safety assessment based on user opinion and traffic conflict data, Giuseppina Pappalardo, Italy*

17 *A Novel Deceleration Based Surrogate Safety Indicator Considering Reaction Time and Constant Initial Acceleration, Eszter Kalló, Germany*

18 *A real-time multi-sensor trajectory estimation for adaptive nudging of individual drivers, Adrian Fazekas, Germany*

19 *The use of aeromobile platforms to evaluate selected interactions between road users, Artur Ryś, Poland*

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1115 Coffee break

### CRASHES

Chair: tba

1145 Visualizing Crash Data Patterns, Peter Wagner, Germany

1205 Bad behaviour or bad luck? Factors contributing to severe crashes, Stijn Daniels, Belgium

1225 **Poster pitch**

20 *Identification of traffic crash hotspots when limited number of data is available, Michal Bil, Czechia*

21 *Activating of psychological resources of DUI (Drivers under the influence of alcohol) using the traffic psychology intervention (IFT course) - Germany, Parichehr Sharifi, Germany*

22 The impact of asphalt type on light reflection and road safety, Muammar Abu Ahmad, Israel

23 Safe roadside as an indispensable element of Vision Zero's on Polish roads, Marcin Budzynski, Poland

24 Driving errors at roundabout: a CHAID Analysis, Natalia Distefano, Italy

25 *The Effects of Driving Lesson for Elderly Drivers - from the Viewpoint of Compensation Driving, Yasuhiro Mimura, Japan*

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1240 Lunch break

## KEY NOTE SPEECH II

Chair: tba

1345 Failure-caused Traffic Conflicts - Theory, Applications and Validation, Andrew Tarko, USA

## 1445 POSTER SESSION II

1515 Coffee break

## INFRASTRUCTURE

Chair: tba

1545 Large-scale study on speed-calming effect from speed hump, Niels Agerholm, Denmark

1605 Can an automatic alarm sound at railway level crossings reduce trespassing? A pilot study, Tim De Ceunynck, Belgium

1625 Active signage at pedestrian crossings as a tool for improving safety, Piotr Szagała, Poland

1645 The analysis of traffic safety at tram stops, Piotr Soczówka, Poland

1705 Closure

2000 Social event

## 26<sup>th</sup> October

0900 ICTCT General Assembly

**Further information about the conference available at the Conference Site:** <https://ictct.il.pw.edu.pl/>

For any questions please get in contact with

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**General information on ICTCT**, proceedings of the past conferences, members, member-organisations etc.:  
[www.ictct.net](http://www.ictct.net)