

PROGRAMME



International Co-operation on
Theories and Concepts in
Traffic Safety

31st ICTCT Conference in Porto, Portugal
on 25th – 26th October 2018

**On the track of future urban mobility:
safety, human factors and technology**

24th October

1900 Welcome Reception / Registration

25th October

0800 Registration

0900 Welcome: Stijn Daniels, President of ICTCT
Cristina Pimentel, Porto City Councillor for
Transports (to be confirmed)
João Falcão e Cunha, Dean of FEUP

AUTOMATED DRIVING

Chair: António Couto

- 0930 An incremental approach to study driver-vehicle interaction in the context of progressive automation, António Lobo
- 0950 The deployment of automated vehicles in urban environments: traffic strategies in a safety perspective, Lígia Conceição
- 1010 Recognition on trigger condition of autonomous braking system, Yasuhiro Mimura
- 1030 Acceptance of Cornering ABS and other Advanced Rider Assistance Systems (ARAS) and their potential for crash avoidance/mitigation, Lukas Hartwig
- 1050 Identifying Shortcomings in Autonomous Vehicles Technologies, Eduardo Ribeiro Neto Marques
- 1110 Road safety in an uncertain technological future, Filipe Moura
- 1130 Break

KEY NOTE SPEECH

Chair: Sara Ferreira

- 1200 Panagiotis Papantoniou, National Technical University of Athens
- 1245 Lunch break

POSTER SESSION I

1400 Chair: tba

SAFETY IMPACTS

Chair: tba

- 1530 A controlled trial to allow motorcycles on bus lanes in Tel-Aviv: an assessment of mobility and safety impacts, Victoria Gitelman
- 1550 Safety of mobility scooters: lessons learned from in-depth accident investigations, Ragnhild Davidsen
- 1610 A comprehensive and unified framework for analysing the impacts on road safety of measures influencing speed, Rune Elvik

1845 Conference Dinner (cruise boarding)

26th October

0830 Registration

ACCIDENTS AND PREVENTION

Chair: Elisabete Freitas

- 0900 The severity of pedestrian crashes in Lisbon, Carlos Roque
- 0920 Driver visibility assessment on urban crossing environments based on point clouds, Lucía Díaz-Vilariño
- 0940 Estimating the potential of warning system, which prevents road accidents at pedestrian crossings, Juri Ess

POSTER SESSION II

1000 Chair: Aliaksei Laureshyn

1100 Break

POLICIES AND IMPLEMENTATIONS

Chair: Juri Ess

- 1130 Road safety benchmarking in Dutch municipalities: theoretical framework, implementation and webtool, Charlotte Bax
- 1150 A foresight exercise into urban mobility, Nicole Muhrad
- 1210 Spatiotemporal Variation of Bicycling Collision and Injury in Berlin: Implications for Local Transport Policy Making, Rafael M. Medeiros
- 1230 Can an experience with no car use change a future mode choice behaviour?, Matus Sucha
- 1250 Lunch break

SURROGATE SAFETY MEASURES

Chair: tba

- 1430 Comparison of two nearness-to-collision surrogate indicators at a signalized intersection in Minsk using Extreme Value Theory, Attila Borsos
- 1450 Evaluation of Surrogate measures of safety for vulnerable road users- results and lessons from InDeV project, Aliaksei Laureshyn
- 1510 Framework for analysing cyclist safety per movement: Case study at discontinuity locations along the cycling facility, Matin Nabavi Niaki
- 1530 Contribution of a Novel Speed Reduction Equipment to Promote Road Safety, Francisco Duarte
- 1550 Safety effects of traffic calming on roads through villages: proactive evaluation using GPS data, Jiri Ambros
- 1610 Parameters and statistical modeling for comparison of simulated and observed traffic conflicts. A case study on 2+1 road sections, Carmelo D'Agostino
- 1630 Break

NATURALISTIC DRIVING

Chair: Carlos Roque

- 1700 Using naturalistic driving data to evaluate speed limit reductions: energy, environmental and safety assessment, Patricia Baptista
- 1720 Using naturalistic driving data to model crash risk at a city level, Marta Faria
- 1740 Quantitative analysis of rear-end crashes and near crashes in a commercial fleet in Shanghai, Giulio Bianchi Piccinini
- 1800 Closure
- 2000 Social event

27th October

1000 ICTCT General Assembly

1330 Douro Valley tour

Poster session I

- 1 Effectiveness evaluation of in-vehicle warning system under reduced visibility conditions: a driving simulation study, Mariarosaria De Blasiis
- 2 Using data from a smartphone app to analyse distraction and drowsiness of drivers, Sara Ferreira
- 3 The use of alternative transport means in city centers: insights from an observational survey, Alfred Shalom Hakkert
- 4 Quality of pedestrians' mobility: exploratory study in Coimbra, Fátima Pereira Da Silva
- 5 A Comparison Between Background Modelling Methods for the Detection of Pedestrians in Crosswalks, André Luiz Barbosa Nunes Cunha
- 6 The interface of Transport and Health Engineering for the understanding of Brazilian urban mobility from the perspective of the elderly person, Adriana Sousa
- 7 The tale of two pedestrian deaths: A first of sorts, Thomas Rajesh
- 8 Pedestrians behaviour at unsignalized crosswalks: comparison of results based on simulated urban environments with field observations, Francisco Soares
- 9 Analysis of pedestrian safety and accessibility in the city of Manaus, Amazonas, Luísa Nascimento
- 10 Bicycle simulators: The current state of technology and the influence of research goals, Allison Duncan
- 11 The relative impact of cyclists' appearance and infrastructure layout on speed and lateral distance while overtaking bicyclists: a simulator approach, Anja Katharina Huemer
- 12 Exploring cyclist behavior at signalized crossing: perspective of cyclist-pedestrian conflict analysis, Ming-Yi Tseng
- 13 Incremental and disruptive innovations in the modal cycle: an incentive factor for sustainable mobility?, Cristiano Magno
- 14 Attitudes and behavioural preferences of bicyclists using smartphone app: a comparison in two urban areas in Italy and USA, Carmelo D'Agostino
- 15 The perception of the operational efficiency, by the user of the collective transportation of the metropolitan system of public transport network of the metropolitan region of Goiânia, Goiás, Brazil, Roberto Carlos Sousa
- 16 An analysis of the regional integration of the metropolitan public transport network by bus of the metropolitan region of Goiânia, Goiás, Brazil, according to the socioeconomic spatial and user characteristics, Roberto Carlos Sousa
- 17 Analysis of the implications of new information and telecommunication technologies (ICT) in the mobility of users of collective public transport in Brazil, Adilson Indi
- 18 Home-school travel: a path analysis of factors underlying the choices of the Italian parents, Natalia Distefano
- 19 Using real-time information to improve Emergency Medical Service response: A vehicle dispatching analysis, Marco Amorim
- 20 Winter road maintenance in Portugal: The case study of Bragança, Nuno Gama

- 21 Analysis of the regulation of maintenance of public transport in Manaus, Amazonas, Brazil, Efraim Menezes de Lima Costa

Poster session II

SURROGATE SAFETY MEASURES

- 22 The work dynamics of professional drivers of Brazilian cargo transportation and the potential risk factors for road safety and worker health, Adriana Sousa
- 23 Exploratory study of motorcyclists' risky behavior at an unsignalised intersection using the Swedish Traffic Conflict Technique, Noor Azreena Kamaluddin
- 24 Are the safety benefits of the treatments at pedestrian crossings still valuable in presence of autonomous vehicles?, Carmelo D'Agostino
- 25 Evaluation of the safety effect of bike boxes, Harry Lahrmann
- 26 Can micro-simulation help in getting better exposure measures?, Carmelo D'Agostino
- 27 The "go-along" approach to study the relationship between the environment and residents of Brasília, Caroline Machado
- 28 Road crashes and meteorological conditions in Porto, Portugal: An analysis with lagged effects, António Lobo
- 29 Identification of the causes of the tramlings in the city of Manaus using dynamic systems, Kirssia Matos Isaac Sahdo
- 30 Incorporating road safety concerns into pavement maintenance management, Rita Justo-Silva
- 31 An analysis of critical points and traffic accidents in the urban road network of Goiânia, Beatriz Salles
- 32 Adverse weather and vulnerable road users' casualty in some European countries, Ruth Bergel-Hayat
- 33 Analysing the relationship between freeway flow parameters and safety, through the functional form of a crash prediction model. The case of run-off-road crashes, Carlos Roque
- 34 Identification of potential relationships between road safety and design and operation of roadside elements, Carlos Roque
- 35 Systemic approach for the preventive road safety incidence assessment of cycle rickshaw, Juan Felipe Restrepo-Gonzalez
- 36 Modeling to assess gender and age influence on traffic injury severities in Brazil: urban vs. rural environment, Philippe Silva
- 37 Intermodal Mobility Hubs and MaaS Solutions, Daniel Bell
- 38 Sustainable mobility for irregular settlements, Viridiana Gomes
- 39 Proposition of mitigating measures to minimize the impacts implaced by a travel generator pole of church type: a case study in Goiânia, Goiás, Brazil, Kelves Vinícius Souza
- 40 The effect of urban design on the pedestrians' safety perception: lighting, vegetation, and roadway lanes, Juan Luis Higuera-Trujillo
- 41 The influence of a bypass road on road safety, Wafa Elias
- 42 Construction and validation of the public bus passenger safety evaluation scale, Sam Enoch

Conference Site:

Faculdade de Engenharia da Universidade do Porto

R. Dr. Roberto Frias, s/n

4200-465 Porto

Further information about the conference at: www.fe.up.pt/ictct2018

For any questions please get in contact with

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General information on ICTCT, proceedings of the last workshops, members, member-organisations etc.:

www.ictct.org



The workshop will be organised in close co-operation with the Research Centre for Territory, Transports and Environment of the Faculty of Engineering of the University of Porto (www.fe.up.pt) in Porto, Portugal