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EVU 2022

30th Annual Congress of the [EVU](#), Straßburg, Frankreich; 26. - 28.10.2022

Thema:

Der von der Ländergruppe Frankreich organisierte Kongress fand im Europäischen Parlament während einer der dortigen Sitzungspausen statt. Da das Parlament am Samstag geschlossen ist, wurde die Tagung einen Tag vorverlegt, auf Mittwoch bis Freitag. Insbesondere der zweite Tag war von vielen Vorträgen zu Unfallstatistiken geprägt.

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Programm

Wednesday, October 26th 2022

1:30PM RECONSTRUCTION I

Impact of vehicle electrification on fundamental accident reconstruction parameters
Daniel Paula, Thomas König, Klaus Böhm, Maximilian Bauder, Hans-Georg Schweiger

Braking experimental tests with 3 PTW in different configurations
Romain Vabre1, Christophe Perrin, Jeremy Sinnaeve, Claire Naude, Thierry Serre

Video analysis in traffic accident reconstruction
Matthias Schmidt (AnalyzerPro)

2:30pm Coffee break

3:00PM TRAFFIC BEHAVIOR I

Scientific Methods to Evaluate a Driver Response

Jeffrey Muttart, Swaroop Dinakar, Suntacy Gernhard-Macha
(Crash Safety Research Center, LLC)

Driver responses to intruding vehicles turning-into-same-path scenario from SHRP-2 Naturalistic Database

Swaroop Dinakar, Jeffrey Muttart, Stephanie Appow, Suntacy Gernhard-Macha
(Crash Safety Research Center, LLC)

Cognitive and behavioral approach to ITS at railway level crossings

Virginie Taillandier (SNCF)

Accident risks of elderly drivers when turning left at crossroads: an in-depth study based on naturalistic and accident data

Aurélie Banet, Thierry Bellet (Université Gustave Eiffel)

Thursday, October 27th 2022

9:15AM TRAFFIC BEHAVIOR II

A dual-experiment based on immersive simulation to study future interactions between pedestrians and automated vehicles

Thierry Bellet, Sébastien Laurent, Richard Bertrand (Université Gustave Eiffel)

Court-sworn experts in action for HOTSPOT analyses and training courses for traffic engineering experts in Austria

Pfleger Ernst (EVU-head of Austria)

Lane change processes of cyclists

Laura Wittkamp (Ingenieurbüro Schal und Meyer)

Impact of lane departure systems on the driver's steering wish

Michael Katzer, Jannis Brod

11:10AM RECONSTRUCTION II

Opportunities and challenges of cooperative intelligent transportation systems on accident analysis
Maximilian Bauder, Daniel Paula, Klaus Böhm, Lothar Wech, Hans-Georg Schweiger

Vertical Road Profile Measurement and Validation

Sander de Goede, Vincent van den Berge

Accident reconstruction 800m below earth's surface

Michael Katzer (DEKRA Automobil GmbH)

Reconstruction of a certain sports car accident using complementary evidences – EDR, CCTV and conventional

Wojciech Wach, Piotr Ciepka

2:00PM SAFETY

STAMP and STPA: a conceptual approach and model to analyse road safety. Application to automated vehicles

Yves Page, Thierry Hermitte

Accidents with buses - Findings from various databases

Stefanie Ritter (DEKRA Automobil GmbH)

Reducing crash severity of errant vehicles at motorway exit ramps by using gravel-filled arrester beds

Jovan Trajkovski, Miha Ambrož, Robert Kunc (Faculty of Mechanical Engineering, University of Ljubljana)

Factors related to motorcycle fatalities (FLAM project)

Bérangère Varin (Cerema)

3:20pm Coffee break

3:50PM RECONSTRUCTION III

The MUSIAC multibody barrier model in PC-Crash

Andreas Moser, Hermann Steffan, Vittorio Giavotto

Low-cost method of calculation in investigation accident by random number generation

Gustavo A. Enciso

Systematic investigation of the impact of a bicycle against the side of a crossing vehicle

Johannes Müller (Unfallanalyse Berlin GbR)

Friday, October 28th 2022

9:15AM BIOMECHANICS

Head injury risk during accidents involving new personal mobility devices

Nicolas Bourdet, Frank Meyer, Rémy Willinger, Caroline Deck (Strasbourg University)

Development of a Computationally Efficient Full Biofidel-Dummy Finite Element Model

Benjamin Härtel, Lars Hannawald, Johannes Menke

HTW Dresden)

Accident reconstructions of motorcyclists wearing airbag jacket

Thierry Serre, Maxime Llari, Bastien Canu, Christophe Perrin

(Université Gustave Eiffel)

Powered two-wheelers dynamics: determination of thresholds for the detection of emergency situations

Thierry Serre1, Laura Costa, Christophe Perrin

10:35am Coffee break

11:10AM EVENT DATA RECORDERS

An Airbag ECU Contradicts Itself: Discrepancies and Reverse Engineering of EDR Data

Ingo Holtkötter (Schimmelpfennig + Becke Münster)

Validation of the EDR recorded data of head-on collisions

Jakub Zebala¹, Piotr Ciepka¹, Wojciech Wach, Michal Krzeminski

Security analysis of an Event Data Recorder system according to the HEAVENS model

Robin Langer, Marco Michl, Daniel Paula, Hans-Joachim Hof, Hans-Georg Schweiger

Technische Hochschule Ingolstadt)

Validation of VAG event data recordings triggered by collision warning and automatic emergency braking events.

Jeroen van Essen, Aart Spek

Bester Vortrag

Laura Wittkamp (Ingenieurbüro Schal und Meyer)

Poster

Sonstiges