

XXVIII EVU 2019 Congress– Barcelona / SPAIN - Provisional Programme

ORAL PRESENTATION

24.10.2019 Thursday

24.10.2019 Thursday		
9:00 - 13.00		Registration / EVU Board Meeting
13:00 - 13:30		OPENING CEREMONY
	SESSION 1: Motorised Two Wheelers, Two Wheelers, Bicycles	
13:30 - 13:50	L.A. Olona Salano, O.Cisneros Lopez, J.L.de Miguel Miranda, C. Arregui-Dalmases	Are personal electric mobility devices safe in a pedestrian accident?
13:50 - 14:10	O.Ch. Ballester	Numerical analysis of thoracic impact conditions in motorcycle versus car accidents
14:10 - 14:30	J. Unarski, A.Reza, W.Wach, J.Zębala, P. Cięпка	Looming effect and motorcycles
14.30 - 14:50	T.De Ceunynck, F. Sloomans, P. Temmerman, S. Daniels	Blind spot crashes between vulnerable road users and heavy good vehicles in Belgium
14:50 - 15:20	Coffee brak	Coffee brak
	SESSION 2: Motorised Two Wheelers, Two Wheelers, Bicycles	
15:20 - 15:50	T.Serre	Use of powered two-wheelers multibody model for accident reconstruction
15:50 - 16:10	C. Goddard	Behavior of motorcycle instrument clusters during a collision
16:10 - 16:30	F. Hao.,L. Guo-qing,V. Shao-you	Study on the friction coefficient of e-bicycle side sliding
16:30 - 16:40	M. Wisch	Characteristics of road traffic accidents involving powered two-wheelers in Europe and Australia - results from PIONEERS
16:40 - 17:00		Posters Presentation
17:00 - 18:00		EVU General Assembly

25.10.2019 Friday

SESSION 3: Digitisation/ADAS		
9:00 - 9:20	C. Wilkinson, B. Heinrichs, D. King	Evaluation of the accuracy of speed change reported by event data recorders in airbag control modules
9:20 - 9:40	R. Oga	Accident reconstruction with vehicle control history in Toyota vehicles with Toyota Pre-collision Safety System
9:40 - 10:00	P. Stolle	Reconstruction of a traffic accident by analysis of networked vehicle and traffic system data
10:00 - 10:20	M. Dalessi, F. Balzaretto	Analysis of a frontal crash between two vehicles equipped with EDR and CDR compatible
10:20 - 10:40	W. E. Vandiver	The acquisition and analysis of infotainment and telematics data for use in collision reconstruction
10:40 - 11:10	Coffee brak	Coffee brak
SESSION 4: Digitisation/ADAS		
11:10 - 11:30	D.Watzenig	Event data recording in autonomous driving
11:30 - 11:50	N. Ghasemi, C. Lantieri, A. Simone, V. Vignali, F. Balzaretto	Perception-Reaction Times of the drivers during the use of Adaptive Cruise Control
11:50 - 12:10	J. Gwehenberger, Ch. Lauterwasser, M. Borrack, M. Kreutner, C. Reinkemeyer	Automated driving functions - safety potential, challenges and solution from AZT' perspective
12:10 - 12:30	A. Kuhn	About new roles and needs in the development and safeguarding of futures automated driving function
12:30 - 14:00	Lunch	Lunch
SESSION 5: Open Forum		
14:00 - 14:20	A. Moser, H. Steffan	Artificial intelligence (AI) in accident reconstruction
14:20 - 14:40	K. Bucsuhaszy, V. Svozilova, M. Semela, M. Belak, P. Maxera, I. Stana, M. Bilik, A. Vemola	Driver behavior measured by eyetracking, acquisition of biosignals and vehicle data in regular road traffic

14:40 - 15:00	B. Heinrichs	Effect of residual crush correction on accuracy of impact speed simulation
15:00 - 15:20	D.P. Wood, T. Valentin, C. Fagan, N. Nishimura, C. Glynn, C.K.Simms	The influence of vehicle braking on target vehicle dynamics in low speed rear-end collisions
15:20 - 15:50	Coffee brak	Coffee brak
SESSION 6: Open Forum / Pedestrians		
15:50 - 16:10	K. Boström, H. Wagner, M. de Lussanet, A. Mühlbeier, W. Kalthoff, W.H.M. Castro	Motion analysis of occupants on oblique frontal collisions - Results of almost 900 experimental impacts
16:10 - 16:30	K. Boström, H. Wagner, M. de Lussanet, A. Mühlbeier, W. Kalthoff, W.H.M. Castro	A novel 3D computational human model for the reconstruction of traffic accidents and its application to experimental frontal-oblique low-velocity impacts
16:30 - 16:50	B. Härtel, L. Hannawald	Research and development of a new biofidelic dummy
16:50 - 17:10	A. Schäuble	How realistic is the biofidelic dummy in terms of reconstruction parameters and biomechanics
20:00	Gala dinner	Gala dinner
26.10.2019 Saturday		
SESSION7: Open Forum / Pedestrians		
9:00 - 9:20	N. Parera Sallent	Accident scenario definition and simulation for 16+ ton trucks
9:20 - 9:40	P. Vertal	Evaluation of CDR crash tests
9:40 - 10:00	Z. Svatý	Photogrammetric documentation of accident scene under adverse weather conditions
10:00 - 10:20	C. La Ringa, C. Matrisciano	Experimental analysis of impulsive collision models: sensitivity to the restitution coefficient
10:20 - 10:40	K. Nowak	Manipulations in tachographs and road safety
10:40 - 11:10	Coffee brak	Coffee brak

SESSION 8:		Open Forum
11:10 - 11:30	E. Pflieger	Actual results about high complexities and navigation priorities to verify main causes for falling in danger recognition and perceptions
11:30 - 11:50	N. Bobrov, R. Morochovič, J. Mandelik	The FORTIS forensic system and its use in the assessment of traffic accidents
11:50 - 12:10	R. Murri	Risks of accidents with electric vehicles
12:10 - 12:30	B. Schützhofer	Physiological and psychological capacities in human perception and the implications for hazard perception
12:30	Award & Closing ceremony	Award & Closing ceremony

POSTERS SESSION

XXVIII EVU 2019 Congress – Barcelona / Spain Posters session		
1	R. Murri	Tests with new bicycle helmets with and without MIPS
2	D.S.Dima, D.Covaciu, D.D.Trusca, G.Togănel	Some aspect upon moped and motorcycle accidents crash tests and real cases
3	Micucci A., Sangermano M.	The impact of car turn signal detection on crash risk
4	K. van Duijvenvoorde	Hidden details in bicycle-car crashes: results of a study on accident causation
5	Möhler W.	Is modern driving assistance capable to compensate performance deficits of diseased and elderly drivers?
6	Micucci A., Sangermano M.	Cyclists behavior and bicycles kinematic: case study

7	C. Cialdai, D.Vangi, M. Santo Gulino, A.Virga	Pedal-assist bicycles: study on typical riders behavior and performance by on-road monitoring for accident reconstruction
8	Z. Svatý	Personal transporter dynamics
9	F.Slootmans, T. De Ceunyck, P. Temmerman, S. Daniels	Rear end crashes with heavy goods vehicles in Belgium
10	P. Triantafyllidis	EDR/CDR case study: discrepancies in determining "time-zero"
11	M.Samara, U. Raz	Ways to improve professional driver's training
12	R.Banse, M. Monzel, K. Keidel, W. Schubert	Road safety effects of frontal brake lights. Evidence from a laboratory and field study.
13	Dias J., Santos K., Portal R..	Mathematical and computational methods for the reconstruction of two wheelers accidents
14	J.O.Geretto	Experience in the formation of university careers in accidentology and road prevention in the Argentine Republic, impact on society.