Conference chapters

Děčín 10th-12th September 2014

Section 1 – Human-Machine Interface
Plenary session Mirko Novák - *Problems of Driver Attention Decreases*
Plenary session Petr Bouchner
Marek Jež - Controlling Selected Car Functions by Gestures Anna Čechová - *Investigation in Driver's Visual Field*

Section 2 - Simulators

Plenary session

Jiří Pour- *55 Years of Czech Driving Simulators*

Evžen Thöndel - *High Dynamic Motion Platforms for Motion Simulators and Dynamic Testing Purposes*

Jindřich Kalivoda - *Rallye Driver Skills Improving Using the Driving Simulations*

Václav Jirkovský - *An effective way to control the interaction of objects in a virtual scene*

Milan Janda - *Training Station for Drivers with Interactive Stimulator*

Section 3 - Data Analyses/Driver Behavour

Emil Pelikán - *A Weather Risk Prediction System For Road Trip Planning*

Inga Chudjaková - *QFD Implementation in the Automotive Industry*

Přemysl Derbek - *Graphical Interface of the Vehicle Emission Load Model as a Web-based Application*

Dmitry Rozhdestvenskiy - *Detection of Aggressive Driver Behavior Using On-Board Camera and GPS Module*

 Jan Plomer - *New Concept of Hybrid Drive with Multi-gear Planetary Transmission*

Luboš Nouzovský - *Measurement of Cyclists Movement*

Erfan Aria - Implementation of Tire Air Pressure Sensor on Heavy Goods Vehicle (HGV)

Josef Mik - *The Use of Information Technology for Estimation of Vehicle Frontal Collision*

Section 4 - Road safety management

Ivana Šimková - *Accidents Caused by Visitors of Visegrad Group in Slovak Republic*

Petr Kumpošt - *Effective Ways of Traffic Surveys Realization*

Ondřej Přibyl - *Highway Management and its Safety Implications*

Martin Smělý a kol. - *Analysis of accidents on undivided roads with increased number of lanes*

Jiří Hanzl, Petr Kumpošt - *The Possibility of Permanent Alternative Diversion Routes´ System Implementation On The Czech Network of Significant Roads In Case of Extraordinary Or Planned Traffic Restrictions*

Wolfgang Kuhn - *Comprehensive Methodology for the Design, Assessment and Checking Process of Highways*

Josef Kocourek a kol. - *Road safety inspection - prognosis of driver errors and implementation steps*

Jana Košťálová - *Decision Support System for Distribution of Funds Allocated for Elimination of Accident Places*

Abishev - *In regards of road safety in the Republic of Kazakhstan*

Accident analysis
Plenary session   Gustáv Kasanický - *Analysis of road traffic accidents*
Michal Frydrýn - *Traffic Accidents with Child Pedestrians – Validation of Simulation Programs*
Zdeněk Svatý - *Close-Range Photogrammetry for Accident Site Reconstruction in Forensic Science*
Gustáv Kasanický - *Real Data Acquisition After Traffic Accident Using CDR System*
Gustáv Kasanický - *Implementation of the CDR System for Analysis of Data from Passenger Car after Traffic Accident in Europe*
Kaarel Kocián - Shortened Analysis of Cause and Process of Traffic Accidents
Libor Topol - *Behaviour of Drivers on the Roads*
Zuzana Radová - *Vehicle to Child Pedestrian Full Scale Test – Sensitivity Analysis to Initial Conditions*
Martin Šotola - *Riding Comfort on the Motorcycle - Objective Evaluation Methods and Impact on Safety*
Zlatko V. Sovreski - *The traffic accident happened on the crossroad made of the main road Skopje-Ohrid with the str. Boulevard "Boris Kidric" in town Kicevo*