ACCEPTED PAPERS FOR THE *VSDIA* 2020

Status: 15 August, 2020

Pre-Registration Form Received = PRE

Final Registration Form Received = REG

	No	Name(s) of the Autor(s)	COUNTRY	Title of Paper Offer	Session
PRE	1.	Prof. László POKORÁDI	HUNGARY	Sensitivity Analysis of Vehicle System's Reliability Block Diagram with Hierarchical Approach	BASIC
?	2.	Prof. Otmar KRETTEK	GERMANY	How the Weather influences Vehicle Dyanamics	RAIL
?	3.	Mr. Gia Quoc Bao TRAN, Prof. Olivier SENAME, Prof. Péter GÁSPÁR, Dr. Balázs NÉMETH & Mr. Eduarda COSTA	FRANCE+ HUNGARY	Adaptive Speed Control of an Autonomous Vehicle with a Comfort Objective	CONT
?	4.	Mr. Eduarda COSTA, Mr. Thanh-Phong PHAM, Prof. Olivier SENAME, Gia Quoc Bao TRAN, Trong Tu DO & Prof. Peter GASPAR	FRANCE+ HUNGARY	Definition of a Reference Speed of an Autonomous Vehicle with a Comfort Objective	CONT
?	5.	Mr. Quoc Trung PHAM, Prof. Olivier SENAME, Prof. Luc DUGARD, Mr. Thanh Phong PHAM, Mr. Manh Hung DO, Dr. Van Tan VU, Mr. Tat Thang PHAM and Mr.Trong Tu DO	FRANCE	LQR Controller Design For An Active Anti-Roll Bar System Of Single-Unit Heavy Vehicles	CONT
?	6.	Mr. Trong Tu DO, Prof. Olivier SENAME, Prof. Luc DUGARD, Mr. Thanh Phong PHAM, Mr. Manh Hung DO, Dr. Van Tan VU, Mr. Tat Thang PHAM, Mr. Quoc Trung PHAM	FRANCE	Road Adaptation for Semi-Active Suspension System Using Robust Control Method	CONT
PRE	7.	Prof. István ZOBORY	HUNGARY	Longitudinal Dynamics of Trains when Passing through the Entrance Turn-out Zone of a Station	RAIL
PRE	8.	Dr. Zoltán ZÁBORI and Prof. István ZOBORY	HUNGARY	Dynamical Investigation into the Derailment Process of a Railway Wheel-set Running in a Curve	RAIL
PRE	9.	Prof. József CSIBA	HUNGARY	Investigation into the Reliability of Railway Bogies	RAIL

PRE	10.	Prof. András FARKAS	HUNGARY	Nonlinear Models of Certain Data Perturbations of Input Spectral Density Matrices	RAIL
PRE	11.	Mr. Zsombor PETHŐ	HUNGARY	Introduction of a Case Study in the Field of Vehicular Cybersecurity	AUTO
PRE	12.	Mr. Yunguang YE, Mr. Dachuan SHI and Prof. Markus HECHT	GERMANY	An Automatic Correction Strategy for Wear Prediction of Railway Wheels	RAIL
PRE	13.	Mr. Dachuan SHI, Mr. Yunguang Ye, Mr. Marco GILLWALD and Prof. Markus HECHT	GERMANY	Generating Reality-Augmented Simulation Data for Fault Diagnosis of Rolling Stock	RAIL
PRE	14.	Mr. Zsolt VINCZE	HUNGARY	Object Tracking in Lidar Point Clouds	AUTO
PRE	15.	Mr. Asma ACHNIB and Prof. Olivier SENAME	FRANCE	Discrete-Time Robust Preview Control of Uncertain Semi-Active Suspension Systems	CONT
PRE	16.	Mr. Tobias MEINERT, Dr. Athanasios DAFNIS and Mr. Kai-Uwe SCHRÖDER	GERMANY	UpBUS – Electrical, Transmodular Bus for a Seamless Public Transport System	BASIC
PRE	17.	Mr. Dániel FÉNYES, Dr. Balázs NÉMETH, Prof. Péter GÁSPÁR and Prof. Olivier SENAME	HUNGARY	Data-Driven Control Design for Semi-Active Suspension	CONT
PRE	18.	Mr. Tamás HEGEDŰS, Dr. Balázs NÉMETH, Prof. Péter GÁSPÁR and Prof. Olivier SENAME	HUNGARY+ FRANCE	Motion Prediction Based Decision Making Algorithm for Autonomous Vehicles	CONT
PRE	19.	Mr. Bálint TÓTH. Prof. Zsolt SZALAY and Dr. Viktor TIHANYI	HUNGARY	Validation of Virtual Testing Environments for Highly Automated Functions and Automated Driving using Co-Simulation	AUTO
PRE	20.	Mr. Péter FERENCZ	HUNGARY	Analysis Aspects of Vertical Dynamics for Implementation in Simulation Methods to Assess Influences of Secondary Suspension System Anomalies on Wheel Profile Wear	RAIL
PRE	21.	Ms. Judit LUKÁCS and Prof. Árpád TÖRÖK	HUNGARY	Sugeno-Type Fuzzy Based Predictive Model for Interior Noise Level Estimation	BASIC
PRE	22.	Mr. Márton PATAKI, Prof. Zsolt SZALAY and Dr. Viktor TIHANYI	HUNGARY	DEVELOPMENT OF AN ADVANCED TEST SCENARIO FOR AUTONOMOUS BRAKING SYSTEM PREVENTING PEDESTRIAN ACCIDENTS	AUTO
PRE	23.	Ms. Henrietta LENGYEL and Prof. Zsolt SZALAY	HUNGARY	Collection of Adapting Naturalistic Driving Behaviour Parameters for ADAS Systems Development	AUTO
PRE	24	Mr. Máté FAZEKAS, Prof. Péter GÁSPÁR and Dr. Balázs NÉMETH	HUNGARY	Vehicle Models in the Wheel Odometry-Based Localization	CONT

PRE	25.	Mr. Antal ZOLTÁN and Dr. Balázs NÉMETH	HUNGARY	Application Possibilities of Augmented Reality in the Simulation of Automated Vehicle Systems.	CONT
PRE	26.	Mr. Péter SZILASSY and Dr. Balázs NÉMETH	HUNGARY	Design of Speed Control for Automated Vehicles in Intersections with Varying Speed Zones	CONT
PRE	27.	Ms. Annamária KONCZ	HUNGARY	Transport Safety Testing of Lithium-ion Batteries and Their Rik Concerning Laboratory Environment during Tests	BASIC
PRE	28.	Mr. Márk VENCZEL and Prof. Árpád VERESS	HUNGARY	Analysis and Improvement of Filling Process for Viscous Torsional Vibration Damper	BASIC
?	29.	Mr. Márk VENCZEL and Prof. Árpád VERESS	HUNGARY	Effect of AK 1000000 Silicon Oil Thixotropy on Dynamic Viscosity	BASIC
?	30.	Mr. Mirmovsum MIRAGAZADE and Prof. Árpád VERESS	HUNGARY	Aerodynamic Drag Reduction for Commercial Vehicles	AIR/SHIP
?	31.	Mr. József JAKAB, Mr. Roland BALAJTI, Mr. Daniel KISS, Mr. Máté SZIGETVÁRI, Mr. Tamás DEMUS and Prof. Árpád VERESS	HUNGARY	Numerical Modelling and Analysis of an Air Dryer Unit	BASIC
PRE	32.	Prof. Vilmos ZOLLER	HUNGARY	On Track-Vehicle Problems Containing Generalized Beams and Foundations	RAIL
PRE	33.	Mr. Hang CAO and Dr. Máté ZÖLDY	HUNGARY	Path Planning for Autonomous Vehicle in Roundabouts	AUTO
PRE	34.	Mr. István NÉMETH	HUNGARY	Vibration of Disc-Brake Systems – Analysis and Attenuation	RAIL
PRE	35.	Mr. Hakan BASANGAN, Mr. András MIHÁLY, Prof. Péter GÁSPÁR and Prof. Olivier SENAME	FRANCE+ HUNGARY	Integrated Cruise Control and Semi-active Suspension Control for Autonomous Vehicle Based on Look-Ahead Information	CONT
?	36.	Prof. Tamás GAUSZ and Prof. Balázs GÁTI	HUNGARY	Applied Airfoil Aerodynamics	AIR/SHIP
PRE	37.	Mr. Ádám DOMINA and Dr. Viktor TIHANYI	HUNGARY	Path Following Control Solutions for Autonomous Ground Vehicles	AUTO
PRE	38.	Dr. Károly BENEDA	HUNGARY	Identification and Control Design of Shaft Power Micro Gas Turbine Engine for Full Authority Digital Electronic Control	AIR/SHIP
PRE	39.	Prof. András SZABÓ	HUNGARY	Numerical Stability Analysis for Increasing the Critical Speed Limit of EMUs	RAIL
?	40.	Dr. Csaba HARGITAI	HUNGARY	Added Mass Experimental Determination of Inland Vessels	AIR/SHIP

PRE	41.	Dr. Sándor MALATINSZKY	HUNGARY	Conformity Assessment of a Modernised Locomotive Bogie and Body Connection – Type Tests and Results	RAIL
?	42.	Mr. Daniel HADHÁZI	HUNGARY	Theoretical Concept Design of a Potential Stability and Manoeuvre Control On-Board Device for Escort Tugs Using Real Time Measured Operational Technical Information	AIR/SHIP
?	43.	Prof. Dezső SZŐKE	HUNGARY	Structure and Parameter Analysis of the Vibratory System Railway Track and Vehicle	RAIL
PRE	44.	Mr. Máté M-SZŰCS	HUNGARY	Operational Reliability Improvement Possibilities of Diesel Locomotive Fleet with Limited Low Quantity Items	RAIL
PRE	45.	Mr. Márk VENCZEL and Prof. Árpád VERESS	HUNGARY	Investigating the Effect of Thixotropy in Silicone Oils onto the Dynamic Viscosity Measurement	BASIC
PRE	46.	Prof.Dr. István ZOBORY	HUNGARY	On Stochastic Simulation of S-N Curves (Wöhler-Curves)	BASIC
?	47.	Mr. Zoltán. GYURKÓ, Mr. László LINDENMAIER, Mr. András SZAPPANOS and Prof. Huba NÉMETH	HUNGARY	Estimation of Vehicle Dynamics for Automated Commercial Vehicles	AUTO

		Preliminary (PRE) or Final (REG) Registration Form **Received from the following Participant Colleagues**			