

2nd International Conference on Vehicle and Automotive Engineering			
		May 23, 2018 – May 25, 2018	
		Wednesday	
8:30-10.00		Registration	Parade Hall
		Plenary	Parade Hall
10.00-10.05		Károly Jármái, main organizer	Greetings
10.05-10.10		Gabriella Bodnár Vadászné, vice dean	Greetings
10.10-10.30		Tamás Kokas, Head of Department, HIPA	Investment of automobile industry in Hungary
10.30-10.50		György Vécsi, Miskolc Holding	Miskolc - the automotive center
10.50-11.10		István Bertus, General Engineering manager, Joyson Safety Systems	New results in the car safety systems
11.10-11.30		László Fükő, president, NOHAC	About the NOHAC and the Automobile Industry
11.30-13.30		Lunch Break	Parade Hall
13.30	Section F2 Autonomous Vehicles, A/5 building Room No. 202.	Section D1 Materials and Manufacturing, A/5 building Room No. 204.	Section C Vehicle Dynamics, A/5 building Room No. 206.
	Charmen: Stephan Schmidt	Chairman: Tamás Bányai	Chairman: Edgár Bertóti
13.30-13.50	<i>Lengyel H., Tihanyi V.: Accident reconstruction tools, with special attention to autonomous vehicles</i>	<i>Ahola A., Skriko T., Björk T.: Fatigue Performance of GMA-Brazed Non-Load Carrying Joints Made of Ultra-High Strength Steel</i>	<i>Chen P-A., Chung Y-J., Chung T-T., Liu T.: Analysis of Steering Geometry and Design of Steering Mechanisms for Four-axle Vehicles</i>
13.50-14.10	<i>Nyerges Á., Tihanyi V.: Trajectory Planning for Automated Vehicles – A Basic Approach</i>	<i>Bányai T., Telek P., Landschützer Ch.: Milkrun based in-plant supply – an automotive approach</i>	<i>Erdős G., Takács L.: Durability Assessment: A Virtual Proving Ground Approach</i>
14.10-14.30	<i>Schmidt M., Schmidt S.: Functional Description of control variables in optimal control and application to maneuver planning for autonomous vehicles</i>	<i>Bárdos A., Walczar Cs., Kéri Z., Selmeczi I.: Copper rotor technology for high efficiency motors</i>	<i>Liu Ch., Zhou J., Gerhard A., Kubenz J., Prokop G.: Characterization of the Vehicle Roll Movement with the Dynamic Chassis Simulator</i>
14.30-14.50	<i>Szendrei Zs., Varga N., Bokor L.: A SUMO-based Hardware-in-the-Loop V2X Simulation Framework for Testing and Rapid Prototyping of Cooperative Vehicular Applications</i>	<i>Béres M., Paripás B.: Measurements of Vibration by Laser Doppler Method in the Course of Drilling</i>	<i>Szűle V., Pere B.: Modelling of heat generation in vehicle components made of rubber caused by finite deformations</i>
14.50-15.10		Coffee Break	

15:10	Section B Alternative Powertrain, A/5 building Room No. 202.	Section D2 Materials and Manufacturing, A/5 building Room No. 204.	Section K Design of Vehicle Structures and Surface, A/5 building Room No. 206.
	Chairman: Attila Trohák	Chairman: Gyula Varga	Chairman: László Könözy
15.10-15.30	<i>Bihari J., Sarka F.: Human-Electric Hybrid Drives in Medium-sized Cities by Daily Traffic</i>	<i>Dietz S., Djurdjevic M.B., Gutiérrez R.F., Rafetzeder M.: Solidification path of NemAlloy</i>	<i>Bognár G.: Characterization of surface roughness for growth models</i>
15.30-15.50	<i>Heidfeld H., Hinzelmann R., Schünemann M., Schmidt S.: Development of an electric powered light-stilt-tractor for the application of biological plant protection products in corn</i>	<i>Illés B., Varga A.K., Czap L.: Logistics and Digitization</i>	<i>Parry L., Könözy L., Temple C.: Airbox Design, Analysis and Improvement for a High Performace Road Racing Sidecar</i>
15.50-16.10	<i>Kiss D., Trohák A.: Hybrid drivetrain of a self-driving go-kart</i>	<i>Juhász J., Bányai T.: What Industry 4.0 means for just-in-sequence supply in automotive Industry?</i>	<i>Petrik M., Szepesi G., Varga T.: Numerical and experimental study of finned tube heat transfer characteristics</i>
16.10-16.30	<i>Morganti M.V., Longo S., Tirovic M., Auger D.J., Raja Ahsan R.M.S.B.: Modular battery cell model for thermal management modelling</i>	<i>Nagy G., Bányainé Tóth Á., Illés B., Glistau E.: Analysis of supply chain efficiency in blending technologies</i>	<i>Benke M., Salyi Zs., Baumli P., Somlyai-Sipos L., Takats V., Csik A., Rugoczky P.: Development of TiB2 coated selective soldering tools for the automotive industry</i>
17.30-20.00	Welcome reception		University Restaurant
	Thursday		
8.00-9.00	Registration		Parade Hall
9.00	Section H Active and Passive Safety, A/5 building Room No. 204.	Section D3 Materials and Manufacturing, A/5 building Room No. 206.	
	Chairman: Zoltán Siménfalvi	Chairman: Angelos P. Markopoulos	
9.00-9.20	<i>Gazdag A., Holczer T., Buttyán L., Szalay Zs.: Vehicular Can Traffic Based Microtracking for Accident Reconstruction</i>	<i>Kundrák J., Markopoulos A.P., Makkai T., Karkalos N.E.: Correlation between Process Parameters and Cutting Forces in the Face Milling of Steel</i>	
9.20-9.40	<i>Mikáczó V., Siménfalvi Z., Szepesi L. G.: Investigation of Pressure Rise in Automotive Airbags</i>	<i>Kundrák J., Molnár V., Deszpoth I.: Analysis of machining time and material removal performance as factors influencing efficiency and profitability</i>	
9.40-10.00	<i>Pinter K., Szalay Zs.: Comparison of data required for accident reconstruction based on crash test</i>	<i>Karpuschewski B., Kundrák J., Felhő Cs., Varga Gy., Sztankovics I., Makkai T., Borysenko D.: Preliminary investigations for the effect of cutting tool edge geometry in high-feed face milling</i>	

10.00-10.20	<i>Vida G., Bodollo I.: Presentation of modern accident reconstruction procedures - case study</i>	<i>Sepsi M., Salata M., Cseh D., Mertinger V., Benke M.: Significance of the Residual Stress Monitoring in the Automotive Industry</i>	
10.20-10.40	Coffee Break	Coffee Break	
10.40	Section E Vehicle Electronics, G Noise and Vibration, Section I Sustainability, A/5 building Room No. 204.	Section D4 Materials and Manufacturing, A/5 building Room No. 206.	
	Chairman: László Pokorádi	Chairman: Tamás Bányai	
10.40-11.00	<i>Czap L., Pinter J.M.: Noise Reduction for Voice-Activated Car Commands</i>	<i>Spisák B., Róbert Beleznai R.: Design and analysis of composite oil pan for automotive</i>	
11.00-11.20	<i>Szabó J.Z., Dömötör F.: Verification of Rolling Element Bearing Defect Frequencies by Vibration Measurements on Bearings with Artificial Faults on the Outer/Inner Rings</i>	<i>Telek P., Bányai T.: Advanced materials handling processes and devices in the automotive industry</i>	
11.20-11.40	<i>Pokorádi L., Ványi G.: Sensitivity Investigation of Failure Mode and Effect Analysis</i>	<i>Tokár M., Fegyverneki Gy., Boros V., Mertinger V.: The Examination of the Effects of Strontium Content on the Properties of Cylinder Heads</i>	
11.40-12.00	<i>Václav S., Košťál P., Lecký Š., Michal D., Bako B.: Assembly system planning in automotive industry with use of discrete event simulation</i>	<i>Trohák A., Forgács Zs.: Conceptual Design of a Measurement- and Data Acquisition System</i>	
12.00-13.30	Lunch Break	Lunch Break	University restaurant
13.30	Section L1 Optimization, A/5 building Room No. 204.	Section F1 Autonomous Vehicles, A/5 building Room No. 206.	
	Chairman: Károly Jármai	Chairman: József Vásárhelyi	
13.30-13.50	<i>Szabó F.J.: Optimization of Springs Applied in Vehicle Suspension Structure</i>	<i>Barsi A., Poto V., Tihanyi V.: Creating OpenCRG road surface model from terrestrial laser scanning data for autonomous vehicles</i>	
13.50-14.10	<i>Topaç M.M., Karaca M., Deryal U., Atak M.: Design and Optimization of a Bus Steering Linkage by Using Response Surface Methodology</i>	<i>Bartók R., Vásárhelyi J.: Fuzzy Rule Interpolation Based Object Tracking and Navigation for Social Robot</i>	
14.10-14.30	<i>Ghafil H.N., Jármai K.: Research and application of industrial robot manipulators in vehicle and automotive engineering, a survey</i>	<i>Cservenák Á.: Further development of an AGV control system</i>	
14.30-14.50	<i>Jármai K.: Cost calculation of thin-walled structures using different manufacturing techniques</i>	<i>Lengyel H., Tihanyi V.: Accident reconstruction tools, with special attention to autonomous vehicles</i>	

14.50-15.10	Coffee Break	Coffee Break	
15:10	Section L2 Optimization, Section J Education, A/5 building Room No. 204.	Section A Conventional Powertrain, A/5 building Room No. 206.	
	Chairman: Zoltán Virág	Chairman: Péter Bencs	
15.10-15.30	<i>Lellep J., Vlassov B.: Elastic plastic analysis of elliptical plates</i>	<i>Dobai A., Bereczky Á.: Investigation of Diesel – n-Butanol Fuel Blend in the Function of Pre-Injection Angle</i>	
15.30-15.50	<i>Simões L.M.C., Jármai K., Virág Z.: ϵ-Optim Reliability-based Cost Design of Longitudinally Stiffened Welded Steel Plates</i>	<i>Dudás L.: Optimal Manufacturing Technology Determination for the Main Parts of a Rotary Internal Combustion Engine</i>	
15.50-16.10	<i>Veres P., Illés B., Landschützer Ch.: Supply chain optimization in automotive industry: a comparative analysis of evolutionary and swarming heuristics</i>	<i>Mohamad B., Szepesi G., Bollo B.: Review Article: Effect of Ethanol-Gasoline Fuel Blends on the Exhaust Emissions and Characteristics of SI Engines</i>	
16.10-16.30	<i>Bouzid A., Vásárhelyi J.: Survey about The PSOC5 LABBOOK</i>	<i>Nagy L.A., Knaup J., Zsoldos I.: A review on the effect of alternative fuels on the friction and wear of internal combustion engines</i>	
16.30-16.50	<i>Kelemen L.: 10 years of pneumobile competition at the University of Miskolc</i>	<i>Rosta L.: Neutrons for Materials Research in Automotive Industry</i>	
17.30-21.00	Bankett	Bankett	University restaurant
	Friday		
8.00-8.30	Registration	Parade Hall	
	Chairmen: Béla Palotás/Ádám Dobosy		
	Section M1 Welding, Parade Hall		
8.30-8.50	<i>Fiedler M., Plozner A., Rutzinger B., Scherleitner W.: Control of Mechanical Properties for high strength steels through optimized welding processes</i>		
8.50-9.10	<i>Brtník T., Mika I.: Welding of high strength steels</i>		
9.10-9.30	<i>Tervo H., Mourujärvi J., Kaijalainen A., Kömi J.: Mechanical properties in the physically simulated heat-affected zones of 500 MPa offshore steel for arctic conditions</i>		

