

**2<sup>ND</sup> UNITED-SAIG INTERNATIONAL CONFERENCE**  
**TENTATIVE PROGRAM**  
**THE EVERLY HOTEL, PUTRAJAYA**  
**23<sup>rd</sup> – 24<sup>th</sup> May 2022**

CONFERENCE DAY 1 (23/5/2022)		
Time Central Europe	Time Malaysia	DESCRIPTION
2:15 AM	8.15 AM	REGISTRATION OF PARTICIPANTS
2:45 AM	8.45 AM	OPENING CEREMONY
3:40 AM	9.40 AM	KEYNOTE SESSION 1: Future of Internal Combustion Engines Beyond the Year 2030 – <b>Ir. Azmi Osman (PROTON, Malaysia)</b>
4:15 AM	10.15 AM	COFFEE BREAK
4:30 AM	10.30 AM	PRESENTATION SESSION 1 <ul style="list-style-type: none"> <li>Invited Speaker: Scenario-based Simulation Testing of Autonomous Vehicle for Malaysian Road and Traffic Environment – <b>Ir. Ts. Dr. Vimal Rau Aparow (University of Nottingham Malaysia)</b></li> <li>Invited Speaker: Battery State Control (BSC) and Power Management Optimization of an Electric Motorcycle – <b>Assoc. Prof. Ir. Dr. Siti Fauziah Toha (International Islamic University Malaysia)</b></li> <li>Invited Speaker: Mobile Robot Technology and Research in Navigation - <b>Assoc. Prof. Ts. Dr. Hamzah Ahmad (Universiti Malaysia Pahang)</b></li> <li>An Experimental Study to Investigate the HCCI-DI Fuelled with Used Cooking Oil Based Biodiesel – <b>Mr. Muntasser Al Anbagi (Universiti Putra Malaysia)</b></li> <li>Effect of Temperature on Py-Oil Characteristics of Sunan Candlenut Olicake as Biodiesel Raw Material – <b>Prof. Dr. I Nyoman Suprpta Winaya (Udayana University, Indonesia)</b></li> <li>Increasing Comfort and Safety in the Modern Automotive by Using Shape Memory Alloy: A Review – <b>Mr. Husam Yahya Imran (Universiti Putra Malaysia)</b></li> <li>Controller Design and Optimization for Recurrent Pedals Pressing during Road Traffic Delay – <b>Mr. Haitham Al-Shami (International Islamic University Malaysia)</b></li> <li>Simulation for a Quarter Car Semi-Active Suspension System using MR Damper with Hybrid Fuzzy-PID Controller – <b>Liu Yunyun (Universiti Putra Malaysia)</b></li> <li>An Experimental Study to Investigate Run of Exhaust Gas Recirculation on Diesel Engine Fueled with Used Cooking Oil Based Biodiesel – <b>Mr. Muntasser Al Anbagi (Universiti Putra Malaysia)</b></li> <li>Organisational Culture Towards Digitalisation in Automotive Industry: A Review – <b>Ms. Alyaa Adibah Idris (Universiti Putra Malaysia)</b></li> </ul>
7:00 AM	1.00 PM	LUNCH BREAK
8:00 AM	2.00 PM	ERASMUS+ UNITED TEAM SESSION
9:15 AM	3.15 PM	KEYNOTE SESSION 2 (ONLINE): System Level Optimization of Hybrid Vehicle Components – <b>Mr. Gianluca Cariccia (Dayco, Italy)</b>
9:45 AM	3.45 PM	COFFEE BREAK
10:00 AM	4.00 PM	PRESENTATION SESSION 2: <b>Online</b> <ul style="list-style-type: none"> <li>Reduction in Motor Vehicle Exhaust Emissions due to the Use of Balinese Wine Made from Palm On Biogasoline – <b>Mr. I Gede Wiratmaja (Universitas Pendidikan Ganesha, Indonesia)</b></li> <li>Blind People Bus Detection System – <b>Mr. Rajamouli Rali (Kalasalingam Academy of Research and Education, India)</b></li> <li>Autonomously Driving Model Vehicle – <b>Mr. Markus Eggbauer (FH Joanneum, Austria)</b></li> </ul>

10:45 AM	4.45 PM	CLOSING REMARKS BY CONFERENCE CHAIR & END OF CONFERENCE DAY 1
<b>CONFERENCE DAY 2 (24/5/2022)</b>		
2:30 AM	8.30 AM	REGISTRATION OF PARTICIPANTS
2:50 AM	8.50 AM	WELCOME REMARKS BY CONFERENCE CHAIR
2:55 AM	8.55 AM	KEYNOTE SESSION 3: Impact of Green Mobility Solutions as Part of the Environmental, Social & Governance (ESG) Agenda in Malaysia – <b>Mr. Hisham Razuli Halim (DreamEDGE, Malaysia)</b>
3:30 AM	9.30 AM	PRESENTATION SESSION 3 <ul style="list-style-type: none"> <li>Invited Speaker: Brake Force Control for Light Motorcycle using Combined Brake System – <b>Ts. Dr. Mahamad Hisyam Mahamad Basri (Universiti Teknologi MARA)</b></li> <li>Invited Speaker: Autonomous Vehicle Landscape in Malaysia: Progress and Way Forward – <b>Dr. Hairi Zamzuri (eMooVit Technology Sdn. Bhd.)</b></li> <li>Invited Speaker: Characterization of Noise and Vibration Patterns in Automotive HVAC System under Various Operating Conditions: An Experimental Investigation – <b>Dr. Ahmad Zhafran Ahmad Mazlan (Universiti Sains Malaysia)</b></li> </ul>
4:15 AM	10.15 AM	COFFEE BREAK
4:30 AM	10.30 AM	PRESENTATION SESSION 4 <ul style="list-style-type: none"> <li>Invited Speaker: Noise and Vibration Analysis for Wiper Blade of Cars – <b>Assoc. Prof. Ir. Dr. Mohd Zarhamdy Md Zain (Universiti Teknologi Malaysia)</b></li> <li>Invited Speaker: Path Tracking Controller for Tracked Vehicles – <b>Dr. Noor Hafizah Amer (Universiti Pertahanan Nasional Malaysia)</b></li> <li>Potential Applications and Challenges of SMA Actuator in Automotive Industry – <b>Ms. Sivasanghari Karunakaran (Universiti Putra Malaysia)</b></li> <li>Metaheuristic-based PID Controller for a Semi-Active Suspension System – <b>Mr. Zahidi Rahman (MIMOS Bhd.)</b></li> <li>Evaluating the Effects of Preload on the Seat Performance in Attenuating Vibration using Mechanical Impedance Model – <b>Mr. Azmi Mohammad (Universiti Putra Malaysia)</b></li> <li>Data Visualization from A Steering Wheel Car's Vibration Using Statistical Pattern Recognition Technique – <b>Mr. Muhammad Haziq Mohd Zaki (Malaysia Automotive, Robotics and IoT Institute)</b></li> <li>Students' Attention on Learning Motivation using Virtual Reality and Augmented Reality Applications in Assembly Task – <b>Ms. Lai Lai Win (Universiti Putra Malaysia)</b></li> <li>Immersive Gamified Augmented Reality Application Aided Human-Machine Interaction – <b>Ms. Nadia Hanim Abd Rani (Politeknik Tuanku Sultanah Bahiyah, Malaysia)</b></li> <li>Technology-Based Learning in Technical Vocational Education and Training – <b>Ms. Nalienaa Muthu (Universiti Putra Malaysia)</b></li> </ul>
7:00 AM	1.00 PM	LUNCH BREAK
8:00 AM	2.00 PM	PRESENTATION SESSION 5: <b>Online</b> <ul style="list-style-type: none"> <li>Development of an Electric Motor Sizing Tool for Air Taxi – <b>Mr. Alexander Hartwig (Aachen University of Applied Sciences, Germany)</b></li> <li>A Vision System using Onboard Camera for Signboard Detection and Vehicle Guidance – <b>Mr. Mahendra Machunuri (Kalasalingam Academy of Research and Education, India)</b></li> <li>Energy Consumption of a Hybrid Electric Vehicle on Variance Vehicular Speed – <b>Mr. Raymond Sitorus (Universitas Sumatera Utara, Indonesia)</b></li> <li>Quantitative Evaluation of Health Management Designs for Fuel Cell Systems – <b>Mr. Oliver Schopen (Aachen University of Applied Sciences, Germany)</b></li> <li>Feasibility and Design of a Modular Micro Electric Vehicle (MMEV) – <b>Mr. Pathorn Payorasisakul (Chulalongkorn University, Thailand)</b></li> </ul>

		<ul style="list-style-type: none"> <li>• Difference Geometry Simulation of Phase Change Materials on Electric Vehicle Battery Module Cooling Systems – (<b>Udayana University, Indonesia</b>)</li> <li>• Automatic Varying the Light Intensity of the Vehicles while Crossing Opposites – (<b>Kalasalingam Academy of Research and Education, India</b>)</li> </ul>
9:45 AM	3.45 PM	COFFEE BREAK
10:00 AM	4.00 PM	KEYNOTE SESSION 4 (ONLINE): Towards Climate Neutral Mobility – Case of Austria 2040 – <b>Dr. Gerfried Jungmeier (Joanneum Research, Austria)</b>
10:30 AM	4.30 PM	CLOSING REMARKS BY CONFERENCE CHAIR & END OF CONFERENCE