

**2<sup>ND</sup> UNITED-SAIG INTERNATIONAL CONFERENCE**  
**TENTATIVE PROGRAM**  
**THE EVERLY HOTEL, PUTRAJAYA**

CONFERENCE DAY 1 (23/5/2022)	
TIME	DESCRIPTION
8.15 AM	REGISTRATION OF PARTICIPANTS
8.45 AM	OPENING CEREMONY
9.40 AM	FIRST KEYNOTE SESSION: <i>Ir. Azmi Osman (PROTON, Malaysia)</i>
10.15 AM	COFFEE BREAK
10.30 AM	PRESENTATION SESSION 1 <ul style="list-style-type: none"> <li>• Invited Speaker – <b>Ir. Ts. Dr. Vimal Rau Aparow, University of Nottingham Malaysia</b> (Scenario-based Simulation Testing of Autonomous Vehicle for Malaysian Road and Traffic Environment)</li> <li>• Invited Speaker – <b>Assoc. Prof. Ir. Dr. Siti Fauziah Toha, International Islamic University Malaysia</b> (Battery State Control (BSC) and Power Management Optimization of an Electric Motorcycle)</li> <li>• Invited Speaker - <b>Assoc. Prof. Ts. Dr. Hamzah Ahmad, Universiti Malaysia Pahang</b> (Mobile Robot Technology and Research in Navigation)</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 Yahaya 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>• Organisational Culture Towards Digitalisation in Automotive Industry: A Review – <b>Ms. Alyaa Adibah Idris (Universiti Putra 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> </ul>
1.00 PM	LUNCH BREAK
2.00 PM	ERASMUS+ UNITED TEAM SESSION
3.15 PM	SECOND KEYNOTE SESSION (ONLINE): <i>Mr. Gianluca Cariccia (Dayco, Italy)</i>
3.45 PM	COFFEE BREAK
4.00 PM	PRESENTATION SESSION 2: <i>Online</i> <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>(FH Joanneum, Austria)</b></li> </ul>
4.45 PM	CLOSING REMARKS BY CONFERENCE CHAIR AND DAY 1 ENDS
CONFERENCE DAY 2 (24/5/2022)	
8.30 AM	REGISTRATION OF PARTICIPANTS
8.50 AM	WELCOME REMARKS BY CONFERENCE CHAIR
8.55 AM	THIRD KEYNOTE SESSION: <i>Mr. Hisham Razuli Halim (DreamEDGE, Malaysia)</i>
9.30 AM	PRESENTATION SESSION 3 <ul style="list-style-type: none"> <li>• Invited Speaker – <b>Ts. Dr. Mahamad Hisyam Mahamad Basri, Universiti Teknologi MARA</b> (Brake Force Control for Light Motorcycle using Combined Brake System)</li> <li>• Invited Speaker – <b>Dr. Hairi Zamzuri, eMooVit Technology Sdn. Bhd.</b> (Autonomous Vehicle Landscape in Malaysia: Progress and Way Forward)</li> </ul>

	<ul style="list-style-type: none"> <li>Invited Speaker – <b>Dr. Ahmad Zhafran Ahmad Mazlan, Universiti Sains Malaysia</b> (Characterization of Noise and Vibration Patterns in Automotive HVAC System under Various Operating Conditions: An Experimental Investigation)</li> </ul>
10.15 AM	COFFEE BREAK
10.30 AM	<p>PRESENTATION SESSION 4</p> <ul style="list-style-type: none"> <li>Invited Speaker – <b>Assoc. Prof. Ir. Dr. Mohd Zarhamdy Md Zain, Universiti Teknologi Malaysia</b> (Noise and Vibration Analysis for Wiper Blade of Cars)</li> <li>Invited Speaker – <b>Dr. Noor Hafizah Amer, Universiti Pertahanan Nasional Malaysia</b> (Path Tracking Controller for Tracked Vehicles)</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 Hassan (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. Win Lai Lai (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>
1.00 PM	LUNCH BREAK
2.00 PM	<p>PRESENTATION SESSION 5: <i>Online</i></p> <ul style="list-style-type: none"> <li>Development of an Electric Motor Sizing Tool for Air Taxi – <b>(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>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> <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>
3.45 PM	COFFEE BREAK
4.00 PM	FOURTH KEYNOTE SESSION (ONLINE): <b>Dr. Gerfried Jungmeier (Joanneum Research, Austria)</b>
4.30 PM	CLOSING REMARKS BY CONFERENCE CHAIR AND CONFERENCE ENDS