



DAY ONE: Monday 3 October

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7:30	REGISTRATION OPENS	FOYER		
		AUSTRALIA BALLROOM		
9:00		WELCOME ADDRESS - MC Danielle Storey	15 MINS	
9.00		OPENING ADDRESS ONE - Adrian Feeney	13 MIN3	
		OPENING ADDRESS TWO - Murli Iyer & Dr Raman Venkatesh		
9:15		SAE International	15 MINS	
		Mobility in service of Humanity		
9:30		KEYNOTE ONE - Remi Bastien Automated Driving for Sustainable Mobility	45MINS	
10:15-10:45		MORNING TEA	30 MINS	
10.15 10.45		monthly real	Susan Harris – ITS Australia	
		PANEL ONE - Chaired by Gary White	Julian Broadbent – Applied EV	
10:45		Automated Landscape	Sudarshan Ramachandran - NVIDA	
			Remi Bastien – Renault (former)	
11:45		KEYNOTE TWO - Kazu Kato, NHK Spring Co.	45 MINS	
		Comfortable seat for Autonomous vehicles		
12:30-13:30		LUNCH	60 MINS	
	CONCURRENT ONE: AUSTRALIA ONE	CONCURRENT TWO: AUSTRALIA TWO	CONCURRENT THREE: AUSTRALIA THREE	CONCURRENT FOUR: STATE ROOM
	Digital Transformation in Automotive Industry	Electric, Hydrogen, Fuel Cell Technology	Vehicle Dynamics and Control	Formula SAE, EV and AV
	SESSION CHAIRS: Simon Watkins/ Anthony Germanchev Session Assistants: Yujun Zhao & Jane Xu	SESSION CHAIRS: Frank Will/ Robert Kochhan Session Assistants: Kun Zou	SESSION CHAIRS: Gary White / Shane Richardson Session Assistants: Asith Abeysinghe	SESSION CHAIRS: Scott Wordley / Nick Owen Session Assistants: Bhavin Arya
	Session Assistants: Tujun Zhao & Jane Xu			
13:30	APAC-21-106 Virtual Gearshift (South Korea) Jiwon Oh	the Bess Pilot Program (Australia) Dickson Leow	APAC-21-108 Research on Integrated Performance Design for the xEV Braking System (South Korea) Wook Hyun Han	APAC-21-SP1 AVR in Vehicle Design for Remote Working (Team Swinburne Formula SAE)
		the bess Filot Flogram (Australia) Dickson Leow	APAC-21-114 Proposal of CAT Model Based Benchmarking and System	APAC-21-SP2 Using Computer Aided Engineering to analyse the success of an
13:55	APAC-21-188 Gearshift Schedule with Takagi-Sugeno Fuzzy Logic Interference on	, , , , , , , , , , , , , , , , , , , ,	Characteristic Optimization Method for Developing Vehicle Handling	Overall Vehicle Specification in a Formula Student setting
	Two-speed Evs (Australia) Haiping Du	using thermodynamic simulation (South Korea) Hee Sam Kang	Performance (South Korea) Jin Hee Lee	(RMIT University)
	APAC-21-125 Omni-Aware: Learnings from a roadside adaptation of automated	APAC-21-124 Optimum Life for Minimum CO2 in Light Duty Vehicles -	APAC-21-148 An autonomous vehicle at the handling limit: A hierarchical	APAC-21-SP3 Implementation of a Baraja Spectrum-Scan™ LiDAR. (Monash
14:20	vehicle LiDAR (Australia) David Johnston	Comparison of EVs with ICEs on Biogas or CNG (Australia) Harry Watson	controller based on the Quasi-Steady-State model (Australia) Kyle Tucker	Motorsport)
	APAC-21-160 Enhanced Virtual Products and their Influence in Automotive	APAC-21-146 Novel Assessment Approaches to Support Accelerated	APAC-21-150 The development of hybrid chassis components applied by the	APAC-21-SP4 Embedding a wireless sensor network in an F-SAE AV to aid the
14:45	Development, Manufacturing and Testing Processes (Austria) Alexander Kreis	Automotive Battery Design and Development Using Tailored Mission	GFRP and steel (South Korea) Pankeun Jeong	core 'detect, classify, and predict' operation
	Development, Manufacturing and Testing Processes (Austria) Alexander Kreis	Profiles (Austria) Muamer Majetic	di NF and Steel (South Rolea) Fankedil Jeong	(FSAE Team Swinburne's research program)
15:10	APAC-21-126 Cooperative Intelligent Transport Systems research within the AIMES	APAC-21-198 Data-driven analysis of Australian EV charging and driving	APAC-21-167 Prediction of Vehicle Vibration Discomfort using a Transfer	APAC-21-SP5 Development of an autonomous pipeline for a Formula Student
	Environment (Australia) Ada Lin	behaviours (Australia) ABSTRACT ONLY Kai Li Lim	Matrix Method (Australia) Jianchun Yao	racecar (Monash Motorsport)
15:35 - 16:00	AFTERNOON TEA 25 MIN AUSTRALIA BALLROOM			
		KEYNOTE THREE - Majid Sarvi, Director of Transport Technology,		
16:00		University of Melbourne	45 MIN	
20.00		Autonomous & Connected Vehicle Transporation	5 1111	
16:45		DAY ONE WRAP - MC Danielle Storey	15 MIN	
17:00 pm		DAY ONE CLOSE		
		WELCOME RECEPTION IN THE ATRIUM		

DAY TWO: Tuesday 4 October

	CONCURRENT ONE: AUSTRALIA ONE						
		CONCURRENT TWO: AUSTRALIA TWO	CONCURRENT THREE: AUSTRALIA THREE	CONCURRENT FOUR: STATE ROOM			
	Automated and Connected Mobility 1	Mobility Comfort	Vehicle Crash Safety	Manufacturing & Materials			
	SESSION CHAIRS: Ben Cheng / Russel Gallagher	SESSION CHAIRS: Kazu Kato / Tia Gaffney	SESSION CHAIRS: Professor Dr Thilo Roth / Dickson Leow/ Rory Gover	SESSION CHAIRS: Matthias Weiss / Sam Davis			
	Session Assistants: Mark Sitthichart Tohmuang	Session Assistants: Kun Zou	Session Assistants: Asith Abeysinghe	Session Assistants: Shuan Whimpy			
8:30	APAC-21-118 Utterance Understanding based Vehicle Specialized Voice Recognition System (South Korea) Sungsoo Park	APAC-21-119 Development of an intelligent air cleaning system (South Korea) Dong won Yeon	APAC-21-113 A Study on Crash and Stiffness Structure of Door for B Pillar-Less Vehicle (South Korea) Je-won Choi	APAC-21-129 Lightweight and Economical Panoramic Sunroof Frame: Design of Long and Flat Glass Fiber-Reinforced Plastic (South Korea) Kyeong-Bae Seo			
8:55	APAC-21-127 High Definition mapping for C-ITS (Australia) Varun Srirama	APAC-21-168 A novel automotive HVAC system for inhibition of evaporator contamination (South Korea) Young Wook Kim	APAC-21-123 Rubber is not Rubber(Effect of tyre state on emergency braking) (Australia) Shane Richardson	APAC-21-132 A Study on 48V Heating Glass Technology of Mild Hybrid Vehicle (South Korea) Nakkyong Kong			
9:20	APAC-21-122 A user-personalized Model for Destination Prediction with Navigation logs (South Korea) Chang Woo Chun	APAC-21-128 A Development for slim and light weight cushion-linked back recliner rear seat (South Korea) Dong-hwan Kim	APAC-21-130 The evolution of ABS performance in emergency stopping events (Australia) Tia Gaffney	APAC-21-196 Research, development and implementation of an accelerated fatigue testing procedure for a vehicle carrier system (Australia) Shilei Zhou			
9:45	APAC-21-173 Assistance System for Pedestrian Overtaking based on Individual Risk Estimation (Japan) Manh-Dung VU	APAC-21-187 The benefits of variable stiffness and variable damping suspension system on motion sickness (Australia) Yulin Liao	APAC-21-137 Design and Crash performance comparision study of Monocoque and Spaceframe BIW (South Korea) Do Hoi Kim	APAC-21-144 Optimization of Silicone Artificial Leather to prevent soiling seat trim cover (South Korea) Hyerin Choi			
10:10	APAC-21-131 pswich Connected Vehicle Pilot – Safety Evaluation of Vehicle to Infrastructure applications (Australia) Merle Wood	APAC-21-189 Analysis of the performance of Melbourne's High Capacity Metro Train's suspension system under irregular track conditions (Australia) Youwei Song	APAC-21-152 Automated safety assessment of passengers in vehicles with non- standard seating configuration in rear impact (Czech Republic) Luděk Hynčík	APAC-21-147 The Study on Optimization to Weight Reduction of Battery Case (South Korea) Geonhee Cheon			
10:35 - 11:00		MORNING TEA					
11:00	APAC-21-134 Forecasting near-term (to 2031) uptake of technologies to support transport agency decision-making (Australia) Andrew Somers	APAC-21-138 Development of a testing methodology for Autonomous Vehicles (Australia) ABSTRACT ONLY Andrew White & David Hicks	APAC-21-153 Side Pole crash –Developing objective targets (India) Vijay Neve	APAC-21-165 Exploring integrated seating structures in a two-dimensional space (Australia) ABSTRACT ONLY Shuan Whimpey			
11:25	APAC-21-135 Supporting Automated Driving through Investments in Physical Infrastructures (Australia) Robert Kochhan	APAC-21-195 Intelligently Integrating Connected and Autonomous Vehicles in Las Vegas Medical District (USA) ABSTRACT ONLY Sama Khazraeian	APAC-21-172 Optimization of tyre barrier for racetrack safety (Australia) ABSTRACT ONLY Bhavinkumar Arya	APAC-21-171 A Small-Size Reverberation Room for Sound Absorption Assessment (Australia) Yujun Zhao			
11:50	APAC-21-151 pswich Connected Vehicle Pilot - System Performance (Australia) Miranda Blogg	CLOSED DOOR SESSION APAC COMMITTEE ONLY - Meeting Room 1	APAC-21-197 Building an Autonomous Drive System for an Electric Shuttle Bus (Australia) Kai Li Lim	APAC-21-143 Optimization of Acoustic Properties for Multilayer Acoustic Absorber by using Genetic Algorithm (China) Zhengqing Liu			
12:15	APAC-21-154 Designing and Deploying Service-Oriented Architectures with Model-Based Design (Australia) ABSTRACT ONLY Alex Shin		APAC-21-193 Research on Autonomous Vehicle Path Following Control Considering Transient and Nonlinear Tyre Dynamics (Australia) Shilei Zhou				
12:40 - 13:40		LUNCH					
		AUSTRALIA BALLROOM					
13:40		KEYNOTE 4: Professor Thilo Roth From Mobility Thinking to Vehicle Thinking	50 MINS				
14:30 - 15:00		AFTERNOON TEA					
			Samantha Cockfield, Head of Road Safety at the TAC				
15:00		PANEL TWO - Chaired by David Young (TAC) Vehicle Technology in Australia: Trials, Policy and Regulation Panel	Jonathan Spear, CEO, Infrastructure VIC James Hurnall, Director of Policy at ANCAP Miranda Blogg, Director, CAVI at TMR				
16:10		DAY TWO WRAP - MC Danielle Storev	15 MINS				
16:25		DAY TWO CLOSE					

DAY THREE: Wednesday 5 October

18:15

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7:30	REGISTRATION OPENS	FOYER						
		AUSTRALIA BALLROOM						
9:00		Welcome Day 3 - MC Address	10 MINS					
			Professor Michael Milford, Acting Director QUT Centre for Robotics					
		PANEL THREE - Chaired by Paul Nation (ADF)	Mr James Mewing, BAE Systems Red Ochre Labs					
9:10		Defence - Land Assets	Professor Jennifer Palmer, Aerospace Engineering & Aviation RMIT University					
			Prof Chris Manzie (Uni Melb)					
10:10-10:40		MORNING TEA						
	CONCURRENT ONE: AUSTRALIA ONE	CONCURRENT TWO: AUSTRALIA TWO	CONCURRENT THREE: AUSTRALIA THREE	CONCURRENT FOUR: STATE ROOM				
	Emerging Transport Technology (Aviation, VTOL and Drones)	Human Factors & Ergonomics	Emissions and Pollutants Caused by Vehicles	Vehicle Software and Electronics				
	SESSION CHAIRS: Simon Watkins / Ben Cheng	SESSION CHAIRS: James Hurnall	SESSION CHAIRS: Ludek Hynčík / Rory Gover	SESSION CHAIRS: Dr Shane Richardson / Dr Milan Simic				
	Session Assistants: Nichakorn Pongsakornsathien	Session Assistants: Alessandro Polla	Session Assistants: Arpan Das	Session Assistants: Sara E Rodriguez				
10:40	APAC-21-176 Crashworthiness Review for Electric Vertical Take-Off and Landing Vehicles and Implementation of the Automotive Safety Approach (Germany) Lucas Laarmann	APAC-21-190 Comparison of Four Steering Angle and Lateral Position Measures of Driving Performance (Australia) Jinhui Xu	APAC-21-149 Battery-Electric and Internal Combustion Engine Vehicle Emissions in Australia, Considering Energy Mix and Positive Energy Roads (Australia) Robert Kochhan	APAC-21-161 Characterization of Optical Automotive Multi-Gigabit Ethernet Communication Channel Physical Layer Characterization (Germany) Jamila Josip Borda				
11:05	APAC-21-192 Fast-tracking the development of autonomous vehicles, drones and robots via engineering simulation (Australia) ABSTRACT ONLY Thomas Benke	APAC-21-136 Supporting Driver Training - From Vehicles with Advanced Driver Assistance Systems to Fully Autonomous Vehicles (Australia) Mohsin Murtaza	APAC-21-159 Life-cycle assessment - based evaluation of greenhouse gas emissions of conventional, hybrid and electric cars (Austria) Mario Hirz	APAC-21-120 Mass Production Development on Low Noise Compact Power Trunk Lid System (South Korea) Yong Hyunck Im				
11:30	APAC-21-178 A Conceptual Design of Barking Drones Fleet Management to Detect and Repulse Cattle (Australia) Man (Annie) Liang	APAC-21-194 Investigation on the Acceptance of Autonomous Vehicles (Australia) Abdulaziz Ayedh A Aldakkhelallah	APAC-21-185 Statistical Analysis and Impact Forecasting of Connected and Autonomous Vehicles on the Environment: Case Study in the State of Maryland (USA) Alireza Ansariyar	APAC-21-155 Agile System Development with Model-Based Design (Australia) ABSTRACT ONLY Alex Shin				
11:55	APAC-21-186 The Threat From Above To Terrestrial Transport (Australia) Simon	APAC-21-142 EEG-Based Driving Fatigue Detection by using the		APAC-21-169 Detection of driver behaviours and the effect of camera shooting				
	Watkins	Topological Data Analysis (TDA) (China) Zhengqing Liu		angles on the deep learning model accuracy (Australia) Kun Zou				
12:20			CLOSING PLENARY - AUSTRALIA THREE					
			Conference Summary - Danielle Storey (10 MINS)					
12:20 - 12:50	Go to Australia Three	Go to Australia Three	Invitation to APAC22 - Sangsoon Kwon, SAE Korea (15 MINS)	Go to Australia Three				
12.20 12.50	oo to Australia Till CC	oo to mastrana riii c	Conference close - Greg Shoemark (5 MINS)	do to rastrana rinec				
12:50 - 1:50								
	22:50 - 1:50 LUNCH / CONFERENCE CONCLUDES							
2:00 pm	Free Site Tour: Option #01 - Directed Australia Option #02 - RMIT Digital Manufacturing Facility							

GALA DINNER @ REGENT THEATRE
Hosted by Gary White