

No.	Session Type	Session Code	Session Date/Time	Session Venue	Presentation Code	Presentation Time	Presentation Time	Presenter Name	Presenter Affiliation	Country
1	Technical Session	1A	April 24(Wed), 14:10-15:50 (KST)	Room A	1A-1	April 24(Wed), 14:10-14:30(KST)	Parametric study on thermal management of an automotive power inverter with two-phase cooling based on performance predictive modeling of a mini/micro-channel evaporator	Santhosh SENGUTTUVAN	Sungkyunkwan University	Republic of Korea
2	Technical Session	1A	April 24(Wed), 14:10-15:50 (KST)	Room A	1A-2	April 24(Wed), 14:30-15:00(KST)	Thermal battery cell models - Enabling hazard and health physical thermal testing of battery systems	Marcel NOELLER	Karlsruhe Institute of Technology (KIT)	Germany
3	Technical Session	1A	April 24(Wed), 14:10-15:50 (KST)	Room A	1A-3	April 24(Wed), 14:50-15:00(KST)	Direc fluid cooling thermal management for electric vehicles	MINIE PARK	SK Innovation SK Innoevo	Republic of Korea
4	Technical Session	1A	April 24(Wed), 14:10-15:50 (KST)	Room A	1A-4	April 24(Wed), 15:00-15:50(KST)	Suppression of electric vehicle thermal runaway by injecting water into battery case	Hie Chan KANG	Kunsan National University	Republic of Korea
5	Technical Session	1A	April 24(Wed), 14:10-15:50 (KST)	Room A	1A-5	April 24(Wed), 15:00-15:50(KST)	Experimental characterization of heat generation of pouch and cylindrical type rechargeable lithium-ion batteries	Zong Liu CHUKE	Audited	USA
6	Technical Session	1B	April 24(Wed), 14:10-15:50 (KST)	Room A	1B-1	April 24(Wed), 14:10-14:30(KST)	A successful story of fuel cell vehicles as electric boat drive power source	Ihsan TULALM	Argonne National Laboratory	USA
7	Technical Session	1B	April 24(Wed), 14:10-15:50 (KST)	Room B	1B-2	April 24(Wed), 14:30-15:00(KST)	Analysis of electric vehicle penetration rate and policy implementation effects by region	Bonni KIM	Korea Transportation Institute	Republic of Korea
8	Technical Session	1B	April 24(Wed), 14:10-15:50 (KST)	Room B	1B-3	April 24(Wed), 14:50-15:00(KST)	Doubling the pace of decarbonisation: identifying and transitioning high mileage road uses a study based on uk registration data taken from the dfe's dataset	Ben NELMIES	New AutoMotive	UK
9	Technical Session	1B	April 24(Wed), 14:10-15:50 (KST)	Room B	1B-4	April 24(Wed), 15:00-15:50(KST)	Bridging the gap: policies for effective public recharge infrastructure in the eu for a full bev transition	Edwin BESTERBEURTE	FIIR Sustainable Mobility	Netherlands
10	Technical Session	1B	April 24(Wed), 14:10-15:50 (KST)	Room B	1B-5	April 24(Wed), 15:30-15:50(KST)	Charli e-T: How a global platform for interoperability testing helps to improve the entire EV charging ecosystem	Andre KAUFUNG	BMW AG	Germany
11	Technical Session	1C	April 24(Wed), 14:10-15:50 (KST)	Room C	1C-1	April 24(Wed), 14:10-14:30(KST)	A success story of fuel cell vehicles as electric boat drive power source	Shigeyuki MINAMI	Osaka Metropolitan University	Japan
12	Technical Session	1C	April 24(Wed), 14:10-15:50 (KST)	Room C	1C-2	April 24(Wed), 14:30-15:00(KST)	EVs vehicle-to-grid system for the safe notice of precessed recharging	Sangkyun LEE	LG Energy Solution	Republic of Korea
13	Technical Session	1C	April 24(Wed), 14:10-15:50 (KST)	Room C	1C-3	April 24(Wed), 14:50-15:00(KST)	Comprehensive characterization and early detection of local anode-deficiency defects in Li-ion battery	Takao YUAN	Tsinghua University	China
14	Technical Session	1C	April 24(Wed), 14:10-15:50 (KST)	Room C	1C-4	April 24(Wed), 15:10-15:50(KST)	Progression of lithium ion cell format and latest development in asia market	Luke HU	Electroder GmbH	Germany
15	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-1	April 24(Wed), 14:10-14:30(KST)	A survey of route bus speed change pattern for clarifying electrification benefits	Natalia ZUNIGA	Argonne National Laboratory	USA
16	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-2	April 24(Wed), 14:30-15:00(KST)	The evolution of 800v high voltage electrical architecture in electric vehicles	Robert FISHER	SBD Automotive	Germany
17	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-3	April 24(Wed), 14:50-15:00(KST)	Analysing load profiles of medium and heavy-duty electric vehicles: Implications for grid integration	Gordon WITHAM	RWTHAachenUniversity	Germany
18	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-4	April 24(Wed), 15:10-15:50(KST)	Generating representative driving and load profiles from measured vehicle data for the powertrain concept design of battery-electric heavy-duty trucks	Nandoo KIM	Argonne National Laboratory	USA
19	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-5	April 24(Wed), 15:30-15:50(KST)	Validation and electrification of medium-sized (offhigh) agricultural tractor models	Yiyan FANG	Waseda University	Japan
20	Technical Session	1D	April 24(Wed), 14:10-15:50 (KST)	Room D	1D-6	April 24(Wed), 15:50-15:50(KST)	Impact of vehicle-to-grid integration on the reliability of battery	Yousoung CHOI	Sungkyunkwan University	Republic of Korea
21	Technical Session	1E	April 24(Wed), 14:10-15:50 (KST)	Room E	1E-1	April 24(Wed), 14:30-15:00(KST)	Yarn permeation effects on mechanical performance of woven glass composites in lightweight EV structures	Nasir NAZHITHAN	King Mongkut's University of Technology Thonburi	Thailand
22	Technical Session	1E	April 24(Wed), 14:10-15:50 (KST)	Room E	1E-2	April 24(Wed), 14:50-15:00(KST)	Reuse, remanufacture, recycle and upgrade of traction motors for vehicles: An overview	Agnese SATTAR	Pellegrino di Milano	Italy
23	Technical Session	1E	April 24(Wed), 14:10-15:50 (KST)	Room E	1E-3	April 24(Wed), 15:10-15:50(KST)	Novel recycling technologies to build the closed loop of battery critical materials	Xiao LIN	Boatree Recycling Technologies	China
24	Technical Session	1F	April 24(Wed), 14:10-15:50 (KST)	Room F	1F-1	April 24(Wed), 14:10-14:30(KST)	Volvo cars second generation electric driveline - An in-house design journey	Hakan LENNSTROM	Volvo Cars	Sweden
25	Technical Session	1F	April 24(Wed), 14:10-15:50 (KST)	Room F	1F-2	April 24(Wed), 14:30-15:00(KST)	Study of positive semi-soft control to improve estimated performance during start	Akira SAWADA	Nissan Motor Co.	Japan
26	Technical Session	1F	April 24(Wed), 14:10-15:50 (KST)	Room F	1F-3	April 24(Wed), 14:50-15:00(KST)	Effects of straightening rectangular wire on copper loss of harpin winding motor	Jihun KIM	Sungkyunkwan University	Republic of Korea
27	Technical Session	1F	April 24(Wed), 14:10-15:50 (KST)	Room F	1F-4	April 24(Wed), 15:10-15:50(KST)	Using the simulation of the magnetic field distribution to evaluate the supply chain resilience of global supply chains	Julian FLEISCH	FZI Research Center	Germany
28	Technical Session	1F	April 24(Wed), 14:10-15:50 (KST)	Room F	1F-5	April 24(Wed), 15:30-15:50(KST)	A study on the utilization of passive inductance of pmsm module using the parallelism of power terminals	Sang Kyu YOON	Seoul National University	Republic of Korea
29	Technical Session	1G	April 25(Thu), 14:00-15:50 (KST)	Room G	1G-1	April 25(Thu), 14:00-14:30(KST)	Vehicle choice modeling for consumer preferences and market penetration of zero emission vehicles: A case study in china	Jingxuan ZHAO	University of California Davis	USA
30	Technical Session	1G	April 25(Thu), 14:00-15:50 (KST)	Room G	1G-2	April 25(Thu), 14:30-15:00(KST)	European drivers and the transition to battery electric vehicles: a spatial analysis of 12 eu countries	Dennis VERBIST	Vrije Universiteit Brussel	Belgium
31	Technical Session	1G	April 25(Thu), 14:00-15:50 (KST)	Room G	1G-3	April 25(Thu), 14:50-15:00(KST)	User intentions and willingness to pay for hydrogen-electric and autonomous-driving public transports	Donghe CHI	Hangzhou University	Republic of Korea
32	Technical Session	1G	April 25(Thu), 14:00-15:50 (KST)	Room G	1G-4	April 25(Thu), 15:10-15:50(KST)	Light-duty fuel cell vehicles: Market development in competition with bevs	Andrew BURKE	University of California Davis	USA
33	Technical Session	1G	April 25(Thu), 14:00-15:50 (KST)	Room G	1G-5	April 25(Thu), 15:30-15:50(KST)	Perceptions of electric vehicles in low income communities	Scott HARDMAN	University of California	USA
34	Technical Session	1H	April 25(Thu), 14:00-15:50 (KST)	Room H	1H-1	April 25(Thu), 14:00-14:30(KST)	The strategic geopolitical competition perspective on the resilience of global supply chains	Stephanie LAGUT	EY	Japan
35	Technical Session	1H	April 25(Thu), 14:00-15:50 (KST)	Room H	1H-2	April 25(Thu), 14:30-15:00(KST)	Charging infrastructure to prevent the supply chain disruption	Yannick VAN DER ROOSSE	National Platform for Charging Infrastructure (NPCI) in the Netherlands	Netherlands
36	Technical Session	1H	April 25(Thu), 14:00-15:50 (KST)	Room H	1H-3	April 25(Thu), 14:50-15:00(KST)	The relocation / rebalancing of manufacturing in relation to evs and their components	Peter VAN DEN ROOSSE	Technische Hochschule für Produktion und Applied Sciences	Belgium
37	Technical Session	2A	April 25(Thu), 09:00-10:20 (KST)	Room A	2A-1	April 25(Thu), 09:00-09:30(KST)	Synergistic fusion of physics informed deep learning and Real-to-Sim transfer for precision mass estimation in EV	Hyungho SHIN	Vrije Universiteit Brussel	Belgium
38	Technical Session	2A	April 25(Thu), 09:00-10:20 (KST)	Room A	2A-2	April 25(Thu), 09:30-10:00(KST)	Anomaly detection for electric vehicle data: A case for the i-pedal function	Minhyuk LEE	Hyundai Motor Company	Republic of Korea
39	Technical Session	2A	April 25(Thu), 09:00-10:20 (KST)	Room A	2A-3	April 25(Thu), 10:00-10:30(KST)	Influence factors and compensation for position estimation of pmsm with high speed operations	Peng SUN	School of Mechanical Engineering	China
40	Technical Session	2A	April 25(Thu), 09:00-10:20 (KST)	Room A	2A-4	April 25(Thu), 10:30-10:50(KST)	Torque estimation and current control inductance and flux variations of an ipMSM drive system for electric vehicles	Shin-Hung CHANG	Chung Yuan Christian University	Taiwan
41	Technical Session	2B	April 25(Thu), 09:00-10:20 (KST)	Room B	2B-1	April 25(Thu), 09:00-09:30(KST)	From jump-to-phase out - Transitioning pmsm making towards a primarily market driven charging infrastructure rollout in germany	Johannes MATHIAS LOHR	National Centre for Charging Infrastructure c/o NOW GmbH	Germany
42	Technical Session	2B	April 25(Thu), 09:00-10:20 (KST)	Room B	2B-2	April 25(Thu), 09:30-10:00(KST)	Smart and transparent charging rates are essential for successful expansion of a market-driven charging network	Roland FERNANDEZ	National Knowledge Platform for Charging Infrastructure (NPCI) in the Netherlands	Netherlands
43	Technical Session	2B	April 25(Thu), 09:00-10:20 (KST)	Room B	2B-3	April 25(Thu), 10:00-10:30(KST)	Impact of vehicle-to-grid technologies on the performance of electric vehicle charging protocols	Andreas JENSEN	FEV Consulting	Germany
44	Technical Session	2B	April 25(Thu), 09:00-10:20 (KST)	Room B	2B-4	April 25(Thu), 10:30-10:50(KST)	Towards international standardization of EV charging protocols	Peter VAN DEN ROOSSE	Vrije Universiteit Brussel	Belgium
45	Technical Session	2C	April 25(Thu), 09:00-10:20 (KST)	Room C	2C-1	April 25(Thu), 09:00-09:30(KST)	High fidelity battery model and its integration into performance oriented electric vehicle simulation	Dacson KIM	Hyundai Motor Company	Republic of Korea
46	Technical Session	2C	April 25(Thu), 09:00-10:20 (KST)	Room C	2C-2	April 25(Thu), 09:30-10:00(KST)	Trends in battery research publications: 2013 - 2022	Haris POHL	Lindholm Science Park	Sweden
47	Technical Session	2C	April 25(Thu), 09:00-10:20 (KST)	Room C	2C-3	April 25(Thu), 10:00-10:30(KST)	From mines to ev and their after-market repurposing strategies	Mohini SAINI	University of Toronto	Canada
48	Technical Session	2C	April 25(Thu), 09:00-10:20 (KST)	Room C	2C-4	April 25(Thu), 10:30-10:50(KST)	Battery thermal runaway: Effect of testing methodology and battery chemistry	Sebastien SALARD	IAV France	France
49	Technical Session	2D	April 25(Thu), 09:00-10:20 (KST)	Room D	2D-1	April 25(Thu), 09:00-09:30(KST)	Development of deep learning algorithm for extracting abnormal deceleration patterns	Miritha KIM	Sungkyunkwan University	Republic of Korea
50	Technical Session	2D	April 25(Thu), 09:00-10:20 (KST)	Room D	2D-2	April 25(Thu), 09:30-10:00(KST)	Low-voltage battery management algorithm for electric vehicles in uncharted driving site	Jung-Hun LEE	National Forensic Service Seoul Institute	Republic of Korea
51	Technical Session	2D	April 25(Thu), 09:00-10:20 (KST)	Room D	2D-3	April 25(Thu), 10:00-10:30(KST)	Terria log data analysis approachs from a digital forensics perspective	Younghyun PARK	LS Electronics	Republic of Korea
52	Technical Session	2D	April 25(Thu), 09:00-10:20 (KST)	Room D	2D-4	April 25(Thu), 10:30-10:50(KST)	In-Cabin penetration technologies to enhance SDU user experience in future mobility	Seok-woo LEE	Sungkyunkwan University	Republic of Korea
53	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-1	April 25(Thu), 09:00-09:30(KST)	A study of high-speed impact trimming process parameters for hot stamping parts through shared edge analysis	Tae-Hyun KIM	Sungkyunkwan University	Republic of Korea
54	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-2	April 25(Thu), 09:30-10:00(KST)	3d shape model in vehicle cad using deep learning	KYOUNGHO SHIN	Hyundai Motor	Republic of Korea
55	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-3	April 25(Thu), 10:00-10:30(KST)	A study on development and characterization of in-wheel motor	CHINCHOL CHOI	Changwon National University	Republic of Korea
56	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-4	April 25(Thu), 10:30-10:50(KST)	Model-based fault diagnosis for electric vehicle	Georg JUNGMEIER	Technische Universität Berlin	Germany
57	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-5	April 25(Thu), 10:30-10:50(KST)	Dynamic air validation for 4wd EVs	Seungkyu KIM	JOANNUM RESEARCH LIFE	Austria
58	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-6	April 25(Thu), 10:30-10:50(KST)	Enabling levitation through creation of light electric combined-charging system (LECS)	VIGNESH REVRAJ	Hyundai Motor Company	India
59	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-7	April 25(Thu), 10:30-10:50(KST)	Global ev driving and charging trends: Insights from telematics data	Thara PHILIP	The University of Queensland	Australia
60	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-8	April 25(Thu), 11:00-11:30(KST)	Scenario-based analysis of electrification effects on value creation and employment structures for the automotive cluster in Baden-Wuerttemberg, Germany	Benjamin FRIESE	German Aerospace Center (DLR) Institute of Vehicle Concepts	Germany
61	Technical Session	2E	April 25(Thu), 09:00-10:20 (KST)	Room E	2E-9	April 25(Thu), 11:30-11:50(KST)	Impact of future battery technologies on the passenger vehicle market	Samuel HASSELWANDER	German Aerospace Center (DLR)	Germany
62	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-1	April 25(Thu), 09:00-09:30(KST)	Analysis of power consumption in the powertrain system of an electric truck with regenerative braking: A case study of phu the sap mountain	SALKA THONGSACHAI	ATAE Research Unit	Thailand
63	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-2	April 25(Thu), 09:30-10:00(KST)	Towards sustainable development: Advancing low and zero-emission technologies in construction machinery	DA DIADHARA SMITH	The University of Queensland	Australia
64	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-3	April 25(Thu), 10:00-10:30(KST)	Impact of vehicle-to-grid integration on electricity demand and supply	MARKUS SCHAFFNER	Technische Universität Berlin	Germany
65	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-4	April 25(Thu), 10:30-10:50(KST)	Impact of vehicle-to-grid integration on electricity demand and supply	MIRKO ENGELHARD	FEV Consulting	Germany
66	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-5	April 25(Thu), 11:00-11:30(KST)	Revolutionizing the automotive industry: Software-defined vehicles and their transformative impact on electric powertrains	INGE WILHELM	FIBR Sustainable Mobility	Netherlands
67	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-6	April 25(Thu), 11:30-12:00(KST)	Accelerating smart charging and v2g: lessons learned from use cases across europe	PIERRE DUMONT	Centralisepelc	France
68	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-7	April 25(Thu), 12:00-12:30(KST)	Power strategy adapted to an electric vehicle fleet for a smarter participation to fcr services	ALI FOUCHOU	Volkswagen Car Corporation	Sweden
69	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-8	April 25(Thu), 11:30-11:50(KST)	Innovation in Vehicle-to-Ground: Systemic V2G Case: VW2G experiment	YUKI KOYABASHI	Chalmers University of Technology	Sweden
70	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-9	April 25(Thu), 12:00-12:30(KST)	All-regional v2g evaluation of motion controller using fast and robust v2g	YUAN JI	Infineon Technologies AG	Germany
71	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-10	April 25(Thu), 12:30-13:00(KST)	Change in vehicle-to-grid technology and its impact on electric vehicle	MARKUS DÖRFLER	Hyundai Motor Company	Sweden
72	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-11	April 25(Thu), 13:00-13:30(KST)	Impact of vehicle-to-grid for urban development and transport system electrification in densely populated areas	THOMAS HALL	Business School Gothenburg	Sweden
73	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-12	April 25(Thu), 13:30-14:00(KST)	Impact of vehicle-to-grid regulation on vehicle-to-grid system	MARKUS DE BIE	Hyundai Motor Company	Sweden
74	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-13	April 25(Thu), 14:00-14:30(KST)	Experimental investigation to assess the aging behavior of li-ion batteries: A case of li-ion batteries	HIROAKI TSUCHIDA	Kyungpook National University	South Korea
75	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-14	April 25(Thu), 14:30-15:00(KST)	Impact of aging on li-ion batteries' greenhouse gas emissions	Maurizio CLIMENTE	Eindhoven University	Netherlands
76	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-15	April 25(Thu), 15:10-15:50(KST)	The effect of learning on li-ion batteries' greenhouse gas emissions	KAREEM ABOGMAR	Technical University of Munich	Germany
77	Technical Session	2F	April 25(Thu), 09:00-10:20 (KST)	Room F	2F-16					

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167	Technical Session	SG	April 26(Thu), 09:00-10:40(KST)	Room G	SG-5	April 26(Thu), 10:20-10:40(KST)	Breaking the bottleneck: Strategies for overcoming EV charging infrastructure constraints	Ilya LIKHOV	Nexous Energy	United Arab Emirates
168	Technical Session	SH	April 26(Thu), 09:00-10:40(KST)	Room H	SH-1	April 26(Thu), 09:00-09:20(KST)	Seeking versatility in e-mobility with CHAdMo	Tomomi HAKIMORI	CHAdMo Association	Japan
169	Technical Session	SH	April 26(Thu), 09:00-10:40(KST)	Room H	SH-2	April 26(Thu), 09:20-09:40(KST)	Reliability analysis of e-mobility power's electric vehicle charging network	David PATTERSON	CHAdMo Association	USA
170	Technical Session	SH	April 26(Thu), 09:00-10:40(KST)	Room H	SH-3	April 26(Thu), 09:40-10:40(KST)	Thermal sensing test method for Chado coupler	Xiaogang ZHU	State Grid Electric Power Research Institute	China
171	Technical Session	SH	April 26(Thu), 09:00-10:40(KST)	Room H	SH-4	April 26(Thu), 12:00-12:20(KST)	CHAdMo 3.1 / Chado 2 democratic facility situated in Hitachi/Omika Works, Japan	Hiroaki MIZU	Hitachi Industrial Products, ltd	Japan
172	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 1)	TDS-1	April 24(Thu), 13:00-13:20(KST)	Robust islanding detection method in disturbance and distortion grid-connected system	Bonchan CHOI	HL Mando	Korea
173	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 1)	TDS-2	April 24(Thu), 13:20-14:30(KST)	Technique for improving current control performance of an induction machines based on a PMS Motor Fault Observer	Yunjae OH	HL Mando	Korea
174	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 1)	TDS-3	April 24(Thu), 13:24-13:40(KST)	Comparative voltage-balancing PWM for three-level flying-capacitor inverter-based wireless power transfer	Wei LIU	The Hong Kong Polytechnic University	HongKong
175	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 1)	TDS-4	April 24(Thu), 13:40-14:30(KST)	A multi-frequency wireless power and drive transfer system for electric vehicles	Wei LIU	The University of Hong Kong	HongKong
176	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 1)	TDS-5	April 24(Thu), 13:48-14:00(KST)	Compensation method of digital sensor delay for motor operation	Ihyeung SHIN	HL Mando	Korea
177	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 2)	TDS-6	April 24(Thu), 13:00-13:20(KST)	Robust islanding detection method in disturbance and distortion grid-connected system	Seung-Min HONG	Hyundai Mobis	Korea
178	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 2)	TDS-7	April 24(Thu), 13:24-13:40(KST)	Stability analysis of the proposed robust islanding detection method using PR Controllers of V2V	Markus MUENZER	Infineon Technologies AG	Germany
179	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 2)	TDS-8	April 24(Thu), 13:24-13:40(KST)	Ramp impact & peak power of power semiconductor fusion	Jinyoung KIM	Seoul National University of Science and Technology	Republic of Korea
180	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 2)	TDS-9	April 24(Thu), 13:36-13:40(KST)	Cooling design of 50kW Transformer for fuel cell DC-DC converter considering electromagnetic-thermal characteristics	Sung Hun PARK	Seoul National University of Science and Technology	Republic of Korea
181	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 2)	TDS-10	April 24(Thu), 13:48-14:00(KST)	Cooling design of heatsink for GaN device in power conversion system	Sangho LEE	Korea Automotive Technology Institute	Republic of Korea
182	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-11	April 24(Thu), 13:00-13:20(KST)	Development of diagnostic harness for recycling of EV high-voltage devices	Gerald SAMMER	AVL List GmbH	Austria
183	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-12	April 24(Thu), 13:12-13:20(KST)	Silicon nitron ball bearing for EVs	Chaoqiang JIANG	City University of Hong Kong	HongKong
184	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-13	April 24(Thu), 13:24-13:40(KST)	Implementation of a pitch shifting algorithm to address the low latency of AVAS	Mario MOLLER	PICONN GmbH	Germany
185	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-14	April 24(Thu), 13:36-13:40(KST)	Design and static analysis of spoke for the variable air tire	Juan Pablo BERTUCCI	Eindhoven University of Technology	Netherlands
186	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-15	April 24(Thu), 13:40-14:00(KST)	Vehicle thermal management system for electric vehicle cooling	Bryan LEE	CASTAR	USA
187	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-16	April 24(Thu), 13:00-13:20(KST)	An empirical study on spatial-temporal distribution of charge load by electric vehicle driver in Korea	Geunwoo LEE	Korea Maritime University	Korea
188	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-17	April 24(Thu), 13:24-13:40(KST)	Finding optimal location of EV charging station from charging data based on digital twin platform	Changjin PARK	Chonnam National University	Korea
189	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-18	April 24(Thu), 13:00-13:20(KST)	A study on the rotary shaft of e-wheel motor for low drag torque	Yejongki KIM	Hyundai Mobis	Korea
190	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-19	April 24(Thu), 13:12-13:20(KST)	Research on the power performance evaluation of electric modules for large commercial vehicles based on virtualization environments	Tobias TIEZ	Technische Universität Berlin	Germany
191	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-20	April 24(Thu), 13:00-13:20(KST)	A pulse skipping soft start method for wireless power transfer systems in electric vehicles	Kristina MURTHY CURRIMUTHY	Agronne National Laboratory	USA
192	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-21	April 24(Thu), 13:12-13:20(KST)	Simulation-based optimization of charging infrastructure and scheduling for battery electric truck fleets	Juan Pablo BERTUCCI	Eindhoven University of Technology	Netherlands
193	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-22	April 24(Thu), 13:24-13:40(KST)	Developing a real-time electric vehicle charging system for regional cooperation	Colleen KIM	Korea Maritime University	Korea
194	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-23	April 24(Thu), 13:24-13:40(KST)	An empirical study on spatial-temporal distribution of charge load by electric vehicle driver in Korea	Glen INISTER	Transnet NZ	New Zealand
195	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-24	April 24(Thu), 13:24-13:40(KST)	Technique for improving current control performance of an induction machines based on a PMS Motor Fault Observer	Victor MAQUART	EDF Lab Asia Pacific	Singapore
196	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-25	April 24(Thu), 13:24-13:40(KST)	ECO-friendly Fulluristic Distributed Energy Charging System (EF-DECS) based on AI-based data center in smart infrastructure	Seung Hyuk BAIK	Korea Electrotechnology Research Institute	Republic of Korea
197	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-26	April 24(Thu), 13:12-13:20(KST)	Scaling a renewable-based microgrid to supply an electric vehicle charging station: A design and modelling approach	Alexander PRINZ	Technical University of Berlin	Germany
198	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-27	April 24(Thu), 13:24-13:40(KST)	Experimental setup and testing of a lab-scale off-grid electric vehicle charging station	Mohamed YASFOU	KU Leuven/Inniversity	Belgium
199	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-28	April 24(Thu), 13:36-13:40(KST)	Electric long haul trucks and high power charging - Modelling and analysis of the required infrastructure in Germany	Yazan AL WIRKAT	University of Southampton	UK
200	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-29	April 24(Thu), 13:00-13:20(KST)	Powertrain electric vehicle charging station hub	Tobias TIEZ	Technische Universität Berlin	Germany
201	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-30	April 24(Thu), 13:12-13:20(KST)	Centrifugal pump for electric vehicle charging station hub	Chunhua ZHENG	Shenzhen Institute of Advanced Technology	China
202	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-31	April 24(Thu), 13:24-13:40(KST)	Right sized EV charging infrastructure	Yongjik KIM	FIBR Sustainable Mobility	Korea
203	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-32	April 24(Thu), 13:24-13:40(KST)	Charging point predictive maintenance through machine learning classification method	Victor MAQUART	EDF Lab Asia Pacific	Singapore
204	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-33	April 24(Thu), 13:36-14:00(KST)	Study on wireless charging system control method based on ISO 15110-20	Seung Hyuk BAIK	Korea Electrotechnology Research Institute	Republic of Korea
205	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-34	April 24(Thu), 13:00-13:20(KST)	Overhead electric road systems : Requirements, system architecture and component testing	Joris JAGUIMONT	Soitec	Belgium
206	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-35	April 24(Thu), 13:12-13:20(KST)	A multi-stakeholder approach to assess the impact of EV charging efficiency	Gerald SAMMER	AVL List GmbH	Austria
207	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-36	April 24(Thu), 13:24-13:40(KST)	Research of EV high power charger optimized control method	YOUNGMIN NAM	Renault Korea Motors and Inha University Graduate School	Republic of Korea
208	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-37	April 24(Thu), 13:36-14:00(KST)	A non-stationary transformer network-based load predictor for electric vehicle charging stations	Chaoqiang JIANG	City University of Hong Kong	HongKong
209	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-38	April 24(Thu), 13:00-13:20(KST)	Powertrain electric vehicle charging station hub	Yongjik KIM	Agronne National Laboratory	USA
210	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-39	April 24(Thu), 13:00-13:20(KST)	Prediction of cell life and failure analysis in virtual environment	Luke HU	Electrodrive GmbH	Germany
211	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-40	April 24(Thu), 13:12-13:20(KST)	A case study on gas venting events of NCM212 batteries during thermal runaway under different pressures in a sealed chamber	Cheng Li	Tsinghua University	China
212	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-41	April 24(Thu), 13:24-13:40(KST)	Modeling cell-to-cell variations in lithium-ion batteries and their impact on battery packs	Elias BARBIER	Forschungszentrum Julich	Germany
213	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-42	April 24(Thu), 13:36-14:00(KST)	Optimal fast-charge strategy for cylindrical Li-Ion cells	Joris JAGUIMONT	Soitec	Belgium
214	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-43	April 24(Thu), 13:40-14:00(KST)	A study on the internal temperature characteristics during thermal runaway of high-capacity battery pack	Wonyong KI	Hyundai Mobis	Korea
215	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-44	April 24(Thu), 13:00-13:20(KST)	High-efficiency battery pack design for electric vehicles	Yealim LEE	Daelim university	Korea
216	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-45	April 24(Thu), 13:24-13:40(KST)	Optimization of polymer materials for battery thermal runaway effects	Carlo MINALE	ENEA	Italy
217	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-46	April 24(Thu), 13:36-13:40(KST)	Design and application of polymer materials to prevent battery thermal runaway	Byeong-Rae SON	Hoanam University	Republic of Korea
218	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 3)	TDS-47	April 24(Thu), 13:36-13:40(KST)	Design and application of polymer materials, to prevent battery thermal runaway	Hyun JEE	HL MANDO	Korea
219	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-48	April 24(Thu), 13:00-13:20(KST)	AI-based prediction and safety measures for EMB 3 Phase motor faults	Kyungtak LEE	Hyundai Mobis	Korea
220	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-49	April 24(Thu), 13:12-13:20(KST)	Development of integrated chassis control of semi-active suspension with differential brake for vehicle lateral stability	Hyun Su KIM	Hyundai Motor Company	Korea
221	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-50	April 24(Thu), 13:24-13:40(KST)	A development of differential braking, motor torque and steering torque compensation control logic to improve stability of EVs vehicle motion in crosswind	Jaih AHN	Hyundai Mobis	Korea
222	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-51	April 24(Thu), 13:36-14:00(KST)	Vehicle motion control using torque vectoring on low-friction road	Junha HWI	Hyundai Mobis	Korea
223	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-52	April 24(Thu), 13:40-14:00(KST)	Cooperative ABS for vehicle-to-vehicle motion and vehicle-to-infrastructure motion	Yongjik KIM	Argonne National Laboratory	USA
224	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-53	April 24(Thu), 13:40-14:00(KST)	Levitronix: the future of mobility in electric vehicles. Analyzing the impact of advances in the U.S. department of energy's vehicle technologies	Benjamin LANGER	AVL Software and Functions GmbH	Germany
225	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-54	April 24(Thu), 13:40-14:00(KST)	Megawatt charging - Successor factor for commercial vehicle electrification	Ehsan SABRI ISLAM	Argonne National Laboratory	USA
226	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-55	April 24(Thu), 13:40-14:00(KST)	Leveraging scale-large simulation in autonomy for evaluating Corporate Average Fuel Economy (CAFE) standards	Yisan RANG	Waseda University	Japan
227	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-56	April 24(Thu), 13:40-14:00(KST)	Developing a simple electricity consumption formula for the pre-introduction prediction for electric buses	Jon van KAMPEN	Eindhoven University of Technology	Netherlands
228	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-57	April 24(Thu), 13:40-14:00(KST)	Automated three-dimensional spatial optimization for electric vehicle powertrains	Nanjo YAMAGUCHI	Research Center for Artificial Photosynthesis	Japan
229	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-58	April 24(Thu), 13:40-14:00(KST)	Customized EDU systems from micromobility to heavy-duty autonomous vehicles	Ralph FLEUREN	FEV Europe GmbH	Germany
230	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-59	April 24(Thu), 13:40-14:00(KST)	Right-Angle design and durability for a single-angle home run in cricket	David KRISTOFF	Karlsruhe Institute of Technology (KIT)	Germany
231	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-60	April 24(Thu), 13:40-14:00(KST)	Exploring the potential of QM2C technologies on LDV/MHDV in future transportation systems	Denisa SONG	Karlsruhe Institute of Technology (KIT)	Germany
232	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-61	April 24(Thu), 13:40-14:00(KST)	Advancement of QUT-CT with virtual integration and testing in Autorail system	Hyunmin KIM	Hyundai Mobis	Korea
233	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-62	April 24(Thu), 13:40-14:00(KST)	Memory access performance analysis for Auto micoire MCUs	Yongseong LEE	Kookmin University	Korea
234	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-63	April 24(Thu), 13:40-14:00(KST)	Development of control logic for electronic parking brake	Guillaume DORTEPPE	Vrije Universiteit Brussel	Belgium
235	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-64	April 24(Thu), 13:40-14:00(KST)	Technique and optimization of V2L adapter for electric vehicle	Hana CHOO	Korea Automotive Technology Institute	Korea
236	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-65	April 24(Thu), 13:40-14:00(KST)	A study on how to use rail-based vehicle system in parking garage	Il Ryong KIM	HYUNDAI MOBIS	Korea
237	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-66	April 24(Thu), 13:40-14:00(KST)	A study on reducing torque ripples of resonators for electric vehicles by reducing back electromotive force harmonics	Minjung LEE	Hyundai Mobis	Korea
238	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-67	April 24(Thu), 13:40-14:00(KST)	Potential scales and design optimization of axial and radial flux motors for electric vehicle powertrains	Markus HEIM	KIT Karlsruhe Institute of Technology	Germany
239	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-68	April 24(Thu), 13:40-14:00(KST)	Calculation of electromechanical losses due to p-mem harmonic current of speed for an FCVE air compressor	Seung-Hun LEE	Hangyang University	Korea
240	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-69	April 24(Thu), 13:40-14:00(KST)	Performance comparison of the axial 2D finite element analysis on the axial flux permanent-magnet machines with various magnet shapes	Jae-Hoon KIM	Hangyang University	Korea
241	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-70	April 24(Thu), 13:40-14:00(KST)	Comparison of vibration characteristics of in-wheel motor based on pole distance and slot distributions	Myung-Hwan YOON	Korea Electronics Technology Institute	Korea
242	Dialogue Session	TDS	April 24(Thu), 13:00-14:30(KST)	Hotel C (Screen 11)	TDS-71	April 24(Thu				