

Registration

ESARS-ITEC 2024 - Tuesday 26/11/2024

Nov 26, 2024

■ Registration
 ■ EU project
 ■ Tutorial
 ■ break
 ■ Dinner

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
14:00		Pre-Registration	
4h 30m			
4h 00m		HALL	
14:00		Conference Registration	Via Partenope, 36, 80121 NAPLES
4h 00m			Secretary Desk- Ground Floor
18:00			
4h 30m		Room B	
14:00		EU project Registration	Via Partenope, 36, 80121 NAPLES
30m			Secretary Desk- Ground Floor
14:30		EU Project - HYPOBATT	Via Partenope, 36, 80121 NAPLES
4h 00m		General Assembly Meeting	Room B - Ground Floor
18:30			
4h 00m		Room A	
14:00		Conference Registration	Via Partenope, 36, 80121 NAPLES
1h 00m			Secretary Desk- Ground Floor
15:00		Tutorial	Via Partenope, 36, 80121 NAPLES
3h 00m		Battery Degradetion and Safety with Application from Vehicles and Grid Storage Prof. Anna G. Stefanopoulou (University of Michigan)	Room A- Ground Floor
18:00			
18:30		Break	End registration
1h 00m			
19:30		Welcome to Circolo Savoia	Banchina S. Lucia, 13, 80132 Napoli NA
2h 00m			
21:30			

TOTAL LENGTH: 7h 30m

■ Registration
 ■ Opening Session
 ■ KeyNote Session
 ■ break
 ■ General Track
 ■ Vehicles
 ■ EU project
 ■ Exhibitor
 ■ Railway
 ■ Workshop
 ■ Storage

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
08:00 45m		Registration	Via Partenope, 36, 80121 NAPLES Secretary Desk- Ground Floor
08:45 45m		Opening Session Welcome to ESARS-ITEC 2024: General Chair, IEEE PELS Members and Sponsors	Via Partenope, 36, 80121 NAPLES Room Magna - 1st Floor
KeyNote Session			
09:30 40m		Moving Toward Ubiquitous Charging Of Electric Vehicles Prof. Steve Pekarek - Purdue University	Via Partenope, 36, 80121 NAPLES Room Magna - 1st Floor
10:10 40m		Innovation and Sustainability: Presentation of the High Speed Train TGV M Eng. Didier Frugier - Rolling Stock Engineering Centre, SNCF	Via Partenope, 36, 80121 NAPLES Room Magna - 1st Floor
10:50 30m		Coffe Break	Via Partenope, 36, 80121 NAPLES Room Refreshment Rb - 1st Floor
11:20 1h 25m		Oral Session & EU Project & Exhibitor 27/11/2024	
1h 15m		Room Magna	
General Track			
11:20 15m		Paper ID 20- Introducing the port electric distribution network concept <i>John Prousalidis</i> , Manos Anastasios, Spathis Dimosthenis	Greece
11:35 15m		Paper ID 149- High-side high-voltage, low-current, and temperature sensor with digital interface for electrospray thrusters monitoring <i>Francisco José Blázquez-Plaza</i> , Barrado Andrés, Wijnen Mick	Spain
11:50 15m		Paper ID 196 - Swift Quasi-Peak Detector Implementation using Neural Network <i>Herbert Hackl</i> , Stoiber Martin, Reynvaan Jacob, Auinger Bernhard	Austria
12:05 15m		Paper ID 231 -Comparative Analysis between SiC Converter Designs based on Parallel-connected Discrete Devices and Power Modules <i>Francesco Porpora</i> , Marciano Daniele, Di Monaco Mauro, Nardi Vito, Tomasso Giuseppe	Italy
12:20 15m		Paper ID 168 - A Distributed Simulation of Electrical Machines on FPGAs Using Low Latency Communication Protocol <i>Mustafa Hadil</i> , Zenor John, Kredo II Kurtis, Alavi Zahrasadat, Crosbie Roy	USA
12:35 1h 25m		Room A	
Road Vehicles I			
11:20 15m		Paper ID 10 - Component sizing of single-motor heavy-duty powertrains <i>Arend Jannik</i> , Ayeb Mohamed	Germany

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
11:35 15m		Paper ID 26 - Adaptive Controller Design And Power Loss Analysis Of Resistive And Inductive Cell Balancing during Static, Charging, And Discharging Mode <i>Ashraf Adnan</i> , Ali Basit, S. A. Alsunjury Mothanna, Tricoli Pietro	UK
11:50 15m		Paper ID 15 - GaN-based Resonant Energy Transfer System for EV-Drives with Electrical Excitation <i>Liebetrau Florian</i> , Haller Fenja, Weber Christian, Rinderknecht Frank	Germany
12:05 15m		Paper ID 16 - Comparison between Phase-Shifted Full-Bridge and Full-Bridge LLC Topology for an Contactless Energy Transfer System for EV's with Electrical Excitation <i>Liebetrau Florian</i> , Spielmann Hagen, Weber Christian, Rinderknecht Frank	Germany
12:20 15m		Paper ID 31 - Optimization-Based Development of a Causal, Cascaded, Map-Based Energy Management Strategy for Hybrid Electric Vehicles with Multiple Control Variables <i>Metzler Sebastian</i> , Winke Florian, Jungen Mario, Schmiedler Stefan, Hofmann Peter, Geringer Bernhard	Germany
12:35 10m		Paper ID 108 - Air Gab Field Comparison of Hybrid and Electrical Excited Synchronous Machines without Rare Earth Magnets for Use in Road Vehicles <i>Hagen Spielmann</i> , Benjamin Frieske	Germany
12:45			
1h 15m		Room C	
Road Vehicles II			
11:20 15m		Paper ID 48 - Model predictive control of an hybridised modular fuel cell system for heavy-duty transportation <i>RIVIER NOE</i> , Kergus Pauline, Regnier Jérémi, Jaafar Amine, Turpin Christophe, Boucharel Paul, Lachaize Jérôme, Afri Chouaib, Tognan Malik	France
11:35 15m		Paper ID 68 - Power Density optimization of 48V/12V DC-DC converters considering several topologies and semiconductor technologies. <i>OUADAD Mohammed</i> , Cousineau Marc, Castelane Anne, Romeo Dominique, Rolland Eric	France
11:50 15m		Paper ID 110 - Method to optimize the number of submodules of a Cascaded Multilevel Converter for an EV's Powertrain based on power losses analysis <i>Galvis Castellanos Daniel</i> , Gateau Guillaume, Cousineau Marc, Bachouch Latifa, Santiago Erik	France
12:05 15m		Paper ID 188 - Impacts of using different semiconductor technologies on drivetrain optimization <i>Byden Hannes</i> , Domingues Gabriel, Lu Meng	Sweden
12:20 15m		Paper ID 172 - Comprehensive Numeric-Based Selectivity Analysis of Vehicular Electronic Fuses' Wire Protection Algorithms <i>Mayer Christoph</i> , Baumann Martin, Herzog Hans-Georg	Germany
12:35			
1h 25m		Room B	
11:20 1h 25m		EU Project - HYOBATT General Assembly Meeting	Ground Floor
12:45			
1h 25m		Outdoor	
EV Exhibitor			
11:20 1h 25m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPLES
12:45			
12:45 1h 10m		Lunch	Via Partenope, 36, 80121 NAPLES Room Refreshment Rb1 - 1st Floor

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
13:55 1h 45m		Oral Session & EU Project & Exhibitor 27/11/2024	
1h 15m		Room Magna	
Railway and Rolling Stock Electrical Systems Track I			
13:55 15m		Paper ID 199 - Toward Zero-Emissions Construction Sites: Mobile Battery Energy Storage Units Charged from the Regenerative Braking Energy of Traction Grids <i>Diab Ibrahim, Starke Stefan</i>	Netherland
14:10 15m		Paper ID 14 - Train Control System Independent of Communication Transmission Paths <i>Iwamoto Koki, Kitano Takayasu, Gion Akihiro</i>	Japan
14:25 15m		Paper ID 94 - Improvement of utilizing Renewable Energy by applying Stationary Energy Storage Systems in DC traction power supply system <i>Konishi Takeshi, Ogata Takamitsu</i>	Japan
14:40 15m		Paper ID 187 - Sizing and Energy Management System of Hybrid DC Railway Substation <i>Mohammed Reda SAOUTH, Stéphane BRISSET, Christophe SAUDEMONT, Tony Letrouve</i>	France
14:55 15m		Paper ID 105 - An Integrated Control Method for Stationary and Onboard Energy Storage Systems on DC Electrified Railway <i>Ogata Takamitsu, Saito Tatsuhito, Konishi Takeshi</i>	Japan
15:10			
1h 15m		Room A	
Road Vehicles IV			
13:55 15m		Paper ID 162 - Integrated NMPC-Based Control for in-wheel-motored Rear-wheel drive Electric Vehicles <i>Khan Muhammad Umer, Aydemir Ali Bhadir, Nobahar Amir, Ertan Bulent, Arikan Kukluk</i>	Turkey
14:10 15m		Paper ID 84 - Automation test method and HILS environment configuration for Hydrogen storage system Management Unit verification <i>Kim Jaejeong, Lee Jungin, Hong Jeongmin</i>	South Korea
14:25 15m		Paper ID 9 - Influence of Current Sensor Faults on the Performances of Surface Mounted Permanent Magnet Motor <i>Di Noia Luigi Pio, Ciro Attaianes, Matilde D'Arpino, Mauro Di Monaco, Michael Nye</i>	Italy
14:40 15m		Paper ID 171 - Extended Analytic Selectivity Analysis of a Vehicular Electronic Fuse's Thermal Model-Based Wire Protection Algorithm <i>Mayer Christoph, Baumann Martin, Herzog Hans-Georg</i>	Germany
14:55 15m		Paper ID 179 - Regenerative braking capabilities in e-bike vehicles: comparison between two drive architectures <i>Minervini Marcello, Giangrande Paolo, Corti Fabio, Malighetti Paolo, Mantione Lorenzo</i>	Italy
15:10			
1h 45m		Room C	
Decarbonization in the railway sector			
13:55 20m		Laurent FRECHEDE INTERNATIONAL UNION OF RAILWAYS	France
14:15 20m		Masahiro Sawayanagi EAST JAPAN RAILWAY- Deputy Director of Paris	france
14:35 20m		Guido Guidi Buffarini <i>Head of Technology Design Department-Italferr</i>	Italy

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
14:55 20m		Dario Romano <i>Design Engineering Department, Napoli Branch Office, Hitachi Rail S.p.A</i>	Italy
15:15 20m		Bodgan Vulturescu <i>Senior Project Manager at SNCF</i>	France
15:35 5m		Discussion & Conclusion	
15:40			
1h 45m		Room B	
13:55 1h 45m		EU Project - HYPOBATT General Assembly Meeting	
15:40			
1h 45m		Outdoor	
EV Exhibitor			
13:55 1h 45m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPLES
15:40			
↓5m			
15:45 30m		Coffee Break	Via Partenope, 36, 80121 NAPLES Room Refreshment Rb1 - 1st Floor
16:15 2h 15m		Oral Session & EU Project & Exhibitor 27/11/2024	
1h 45m		Room Magna	
BATTERY CHARGING INFRASTRUCTURES			
16:15 15m		Paper ID 167- A mixed-integer charging schedule for electric vehicles with request-dependent pricing <i>Ghavami Mahsa</i> , Liuzza Davide, Mostacciuolo Elisa, Iannelli Luigi, Vasca Francesco	Italy
16:30 15m		Paper ID 123 - Stochastic Mobility Integration into Residential Energy Hubs <i>Slai Feinstein Dario</i> , Menendez Agudin Alvaro, Ram Chandra Mouli Gautham, Ramirez-Elizondo Laura, Bauer Pavol	Argentina
16:45 15m		Paper ID 208- Extending Feasible Load-Independent Voltage Gain Range in Wireless Power Transfer Links <i>Kuperman Alon</i> , Vulfovich Andrey, Kolesnik Sergei, Yuhimenko Vladimir, Sitbon Moshe, Mandrioli Riccardo,	Israele
17:00 15m		Paper ID 124 - Swift Quasi-Peak Detector Implementation using Neural NetworkEfficiency Comparison of Full-Bridge DC-DC Converters for High-Power EV Charging Modules <i>Liu Dong</i> , Mattsson Aleks, Korhonen Juhamatti, Aarniovuori Lassi, Järvisalo Heikki, Luttamus Panu, Silventoinen Pertti	Finland
17:15 15m		Paper ID 152-Electric Road Systems for Electric Vehicle Long-Distance Travel: A Multi-Agent Simulation Approach <i>Pourroshanfekr Arabani Hamoun</i> , Ingelström Mattias, J. Márquez-Fernández Francisco, Alakúla Mats	Sweden

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
17:30 15m		Paper ID 49-Dispatchable battery swapping system with centralized charging and renewable energy generation <i>Wallander Edvin</i> , J. M árquez-Fernández Francisco	Sweden
17:45 15m		Paper ID 230 - Accurate Electro-Thermal Modeling for an Half-bridge Converter based on Parallel-connected SiC Devices <i>Porpora Francesco</i> , Marciano Daniele, Di Monaco Mauro, Nardi Vito, Tomasso Giuseppe	Italy
18:00			
1h 45m		Room A	
Energy Storage I			
16:15 15m		Paper ID 61 - An experimental- and simulation-based performance evaluation of a commercial high-energy cell - the path towards electric aviation? <i>Alexander Fill</i> , Nando van Arnhem, Moritz Schuhmann, Sebastian Seemann, Kai Peter Birke	Germany
16:30 15m		Paper ID 176 - An Empirical Model for State of Charge Estimation Based on Electrochemical Impedance Spectroscopy <i>Ibrahim Khaled</i> , Sabathiel Silvester, Farooq Farhan, Hofer Günter, Bergmann Alexander, Heer Rudolf	Austria
16:45 15m		Paper ID 229 - Evaluation of Lithium-ion Cell Characterization Procedures and Model Calibration Issues <i>Martino Giovanni</i> , Porpora Francesco, Di Monaco Mauro, Tomasso Giuseppe	Italy
17:00 15m		Paper ID 6 - Computational range maximization under current constraints for heavy-duty electric vehicles <i>Immonen Eero</i>	Finland
17:15 15m		Papr ID 111- Online Broadband Electrochemical Impedance Spectroscopy within Direct Power Control of a Neutral Point Clamped Inverter <i>LIU KAI-PING</i> , Orfanoudakis Georgios, Cruden Andrew, Sharkh Suleiman M.	UK
17:30 15m		Paper ID 166 - Electric power prediction of 2D FE magnetic spring energy harvester based on coil using support vector machines <i>Lo Sciuto Grazia</i> , Bijak Joanna, Kowalik Zygmunt, Trawinski Tomasz, Capizzi Giacomo, Viola Fabio	Poland
17:45 15m		Paper ID 123 - Stochastic Mobility Integration into Residential Energy Hubs <i>Slaifstein Dario</i> , Menendez Agudin Alvaro, Ram Chandra Mouli Gautham, Ramírez-Elizondo Laura, Bauer Pavol	Argentina
18:00			
1h 00m		Room C	
Energy Storage II			
16:15 15m		Paper ID 13 - Power Converter Modulation for Battery SOC Estimation in Electric Vehicle Powertrains: A Torque Ripple Minimization Strategy <i>Mukhtar Nuradin</i> , Gadoue Shady, Mehran Kamyar	UK
16:30 15m		Paper ID 189 - Improved Charging Technique for Reducing the Charging Time in Nickel Manganese Cobalt type Lithium-ion Batteries <i>Nannapaneni Sai Vinay Kishore</i> , Vanjari Seshadri Sravan Kumar	India
16:45 15m		Paper ID 28 - State-of-Charge, State-of-Health and State-of-Power Estimation for Traction Batteries <i>Sabatino Simona</i> , Calderaro Vito, Galdi Vincenzo, Graber Giuseppe	Italy
17:00 15m		Paper ID 126 - Short-circuit DC Current Estimation of Hybrid Energy Storage Systems <i>Silvestro Federico</i> , D'Agostino Fabio, Sivori Fabrizio	Italy
17:15			
2h 15m		Room B	
16:15 2h 15m		EU Project - HYOBATT General Assembly Meeting	

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
18:30			
2h 15m		Outdoor	
		EV Exhibitor	
16:15		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor
2h 15m			Via Partenope, 36, 80121 NAPLES
18:30			
18:30			

TOTAL LENGTH: 10h 30m

■ Registration
 ■ KeyNote Session
 ■ Special Session
 ■ Exhibitor
 ■ break
 ■ Workshop
 ■ Vehicles
 ■ Railway
 ■ EU project
 ■ Poster Session
 ■ Storage
 ■ Dinner

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
08:00 30m		Registration	Via Partenope, 36, 80121 NAPL ES Secretary Desk- Ground Floor
KeyNote Session			
08:30 40m		Towards Carbon-Neutral Aviation Through Electrification Todd Spierling -Collins Aerospace	Via Partenope, 36, 80121 NAPL ES Room Magna - 1st Floor
09:10 1h 30m		Oral Session & EU Project & Exhibitor 28/11/2024	
1h 15m		Room Magna	
Special Session on Innovative techniques and measures for improving rail transit system efficiency			
09:10 15m		Paper ID 138 - Development of an innovative energy management system for a railway smart grid <i>AIMAD CHEGRA</i> , FAWZIA AMOKRANE, NADA ZOUZOU, Smail Ziani, Tony Letrouve, Herve Caron	France
09:25 15m		Paper ID 23 - Railway rolling stocks' long parking strategies for energy saving <i>ALONSO Luis-M</i> , CHAMARET André-Pilippe, FRUGIER Didier, LE FALHER Marie, ECLERCY Daniel, HENRY Patrick	France
09:40 15m		Paper ID 177- Energy management solution of the future dual-mode electric train <i>AMOKRANE Fawzia</i> , Elabachir Mohammed Ilyas, Depature Lançon Clément, CRISPIANI Danilo, PETITET Gilles, ZOUZOU Nada, ZIANI Smail	France
09:55 15m		Paper ID 130- A reversible substation for MVDC railway electrification system <i>Bimmel Luc</i> , Ladoux Philippe, Da Silveira Brito Erick Matheus	France
10:10 15m		Paper ID 209 - Optimal Sizing of a Wayside PV System for DC Rail Transit Systems: the Case Study of the 3 kV Cagliari – Oristano Traction System <i>Di Pasquale Antonio</i> , Pagano Mario, Guidi Buffarini Guido, Carones Nicola, Laurini Marco, Rullo Emanuele	Italy
10:25 1h 30m		Room A	
Special Session on Enabling Technologies for Electrical Power Systems of Future Green Aircraft			
09:10 15m		Paper ID 34 - Thermal Modeling of an Air-cooled Electrical Machine for Propeller-driven Aircraft <i>Brenner Lucas</i> , Alban Daniel, Gerling Dieter	Germany
09:25 15m		Paper ID 192 - Effects on airport operations from a new regional electric flight network in Northern Scandinavia <i>Lindberg Martin</i> , Leijon Jennifer	Sweden
09:40 15m		Paper ID 83 - Simplified Thermal Identification and Modelling of Li-PO batteries for Unmanned Aerial Vehicles PUGI LUCA, Agostini Francesco, Fani Edoardo, Mattei Giuseppe, Franchi Lorenzo, berzi lorenzo	Italy

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
09:55 15m		Paper ID 52 - Review of failure analysis methodologies and procedures applicable to complex electronic systems <i>Robles Marcos</i> , Barrado Andrés, Fernández Arturo, Oliver Jesús, Mahillo Raúl, Lázaro Antonio	Spain
10:10 15m		Paper ID 161 - Harmonic Cancellation for Dual-Generator Power Systems in More-Electric Aircraft: A Neural Network Approach <i>Gao Yuan</i> , Huang Zhen, Xiao Xuechun, Ji Bing	UK
10:25 15m		Paper ID 163 - Analytical Modeling and Parameter-Based Evaluation of Cooling Technologies for MW-Class High Specific Power Electric Motors in Electrified Aircraft Propulsion Systems <i>Heise Frederik</i> , Kazula Stefan	Germany
10:40			
1h 30m		Room B	
Special Session on Advancements, Challenges, and Opportunities in Electrified Mobility and Transport Systems			
09:10 15m		Paper ID 216 - LSTM-based Predictive Control for Connected Autonomous Electric Vehicles Platoons <i>Basile Giacomo</i> , Lui Dario Giuseppe, Napoletano Elena, Petrillo Alberto, Santini Stefania	Italy
09:25 15m		Paper ID 223 - Comparative Energy Assessment of Automated Electric Vehicles equipped with ACC Systems <i>Coppola Angelo</i> , Di Costanzo Luca, Marchetta Andre	Italy
09:40 15m		Paper ID 224- Preliminary Methodologies for Selecting Diesel Railways to Be Converted to Hydrogen <i>D'Acerno Luca</i> , De Matteis Luca, Stefanelli Rosario	Italy
09:55 15m		Paper ID 213 - Optimisation Models for the Location of Refuelling Stations for Fuel Cell Electric Freight Vehicles in Italy: Preliminary Tests <i>Gallo Mariano</i>	Italy
10:10 15m		Paper ID 117 - Evaluation of Direct Torque Predictive Control for SRM with Reduced Computation Resources <i>Gholaminejad Azadeh</i> , Dhale Sumedh, Nahid-Mobarakeh Babak	Canada
10:25 15m		Paper ID 87 - Reliability-Oriented Design of Electrified Aircraft Propulsion by Means of Hierarchical Reliability Models <i>Kammermann Jörg</i> , Sikander Wajeeha, Bolvashenkov Igor, Hans-Georg Herzog	Germany
10:40			
1h 30m		Room C	
Special Session on Accelerating Electrification of Waterborne Transport with Battery Systems			
09:10 15m		Paper ID 40 - Development of Operational Strategies for Optimal Usage of Batteries Onboard Commercial Vessels <i>Erol Erdeniz</i> , Çakan Batuhan, Çetin Nazlı Nur, Bayrakçı Veysel, Güzel Samed, Semiz Ferit, Eyüboğlu Bünyamin	Turkey
09:25 15m		Paper ID 50 - Lessons learnt from high impact R&D projects from ZEWT and other sectors with ESS <i>Meneses Pilar</i> , Aizpurua Izaskun, Batalla Jokin	Spain
09:40 15m		Paper ID 206 - A Multi-Objective Co-Design Optimization Framework for Microgrid Architecture in Marine Application <i>Saeed Kazemian</i> , Geury Thomas, Hegazy Omar	Belgium
09:55 15m		Paper ID 64 - Sizing a heterogeneous battery system for an offshore vessel: methodology and application <i>Vincent Phlippoteau</i> , Julien Dauchy, Solène Goy, Guénaél Le Sollic	France
10:10 15m		Paper ID 147 - Hybrid Ship Fuel Consumption Prediction Through Operational Performance Simulation <i>Husar CalinI</i> , Irimia Cristi, Szabo Robert-Matei, Grovu Mihail, Touat Amine, Petiteau Mathieu	Romania
10:25 15m		Paper ID 144 - Integrated Digital Platform for Marine Energy Management <i>Husar Calin</i> , Baicoianu Alexandra, Pescaru Dan, Sasu Daniela, Tran Dai-Duong, Larsen Lars Petter	Romania

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
10:40			
1h 30m		Outdoor	
EV Exhibitor			
09:10		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor
1h 30m			Via Partenope, 36, 80121 NAPL ES
10:40			
10:40		Coffee Break	Via Partenope, 36, 80121 NAPL ES
30m			Room Refreshment Rb1 - 1st Floor
11:10		Oral Session & EU Project & Exhibitor 28/11/2024	
1h 35m			
1h 15m		Room Magna	
Special Session on Innovative techniques and measures for improving rail transit system efficiency			
11:10		Paper ID 215 - Optimizing Regenerative Braking Energy with Bidirectional Active Traction Substations: Multi-Train Simulation and Transient Modeling <i>Jafari Kaleybar</i> Hamed, Brenna Morris, Pugi Luca, Kociu Aljon	Italy
15m			
11:25		Paper ID 228 - Energy evaluation of urban railroad systems <i>Lutzemberger Giovanni</i> , Ceraolo Massimo, Kociu Aljon, Quilici Francesco Giuseppe, Ruvio Alessandro, Pugi Luca	Italy
15m			
11:40		Paper ID 133 - Infrastructure and battery capacity impact on BEMU's battery lifetime <i>Maxime Juston</i> , Clement Depature, Andre-Philippe Chamaret, Bogdan Vulturescu	France
15m			
11:55		Paper ID 82 - The Static Phase Converter. A Solution to Reinforce the Power Supply of 25 kV/50Hz Railway Lines <i>Sacco Paul</i> , Ladoux Philippe, Sanchez Sébastien, Sonier Benoit, Hassan Mahmoud	France
15m			
12:10		Paper ID 37 - Two-Stage Energy Management of Urban-Rail-Transit-based Micro Grid Integrated with EV <i>Tian Zhongbei</i> , Dong Hongzhi, Spencer Joseph W.	UK
15m			
12:25			
1h 30m		Room A	
Special Session on Electric Machines and Power Converters Models for Digital Twins in Air Transportation Systems			
11:10		Paper ID 72 - Development of 1 MW Hybrid Electric Propulsion Drive System <i>Sawata Tadashi</i> , MInshull Stephen	UK
15m			
11:25		Paper ID 116 - Optimal Voltage Selection for Electrical Power Systems on More Electric Aircraft <i>Wang Xin</i> , Atkin Jason, Yeoh Seang Shen, Bozhko Serhiy	UK
15m			
11:40		Paper ID 121 - Simulation framework of tethered fixed-wing Unmanned Aerial Vehicle <i>Yan Changjin</i> , Zhang Shu, Zhang Donghui, Chen Zhenhai, Zhang Taihua	China
15m			
11:55		Paper ID 47 - Reliability Assessment of Power Modules across Mission Phases in Electric Aircraft Propulsion <i>Kugener Jeff</i> , Kazula Stefan	Germany
15m			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
12:10 15m		Paper ID 205 - Map-based Simulation Model for Energetic Assessment of Electric Propulsion Systems <i>Perilli Lorenzo</i> , Graffeo Federica, Vaschetto Silvio, Tenconi Alberto	Italy
12:25 15m		Paper ID 160 - Hardware-In-the-Loop Modeling and Simulation of the Fin Control Subsystem with DSP <i>Sotero Matheus</i> , Figueiredo de A. Campos Bernardo, Sol Salgado Silva Ícaro, Mello Gabriel, B. Rolim Luís Guilherme	Brasil
12:40			
1h 30m		Room B	
Special Session on Advancements, Challenges, and Opportunities in Electrified Mobility and Transport Systems			
11:10 15m		Paper ID 136 - Assessing the Transformation to Heavy-Duty EVs in the EU: Policy and Technological Aspects <i>Liu Dong</i> , Ahonen Kasimir, Vilko Jyri, Aarniovuori Lassi	Finland
11:25 15m		Paper ID 128 - Vehicle to Grid from the Electric Vehicle point-of-view to reduce peak demand and system cost <i>Menendez Agudin Alvaro</i> , Chandra Mouli Gutham Ram, Bauer Pavol	Netherland
11:40 15m		Paper ID 104 - Design Assessment of GaN FET-Based Inverter for Low-Voltage Braking System <i>Musumeci Salvatore</i> , Barba Vincenzo, Mandrile Fabio, Carbone Fabio, Abate Francesco	Italy
11:55 15m		Paper ID 67 - Optimal Current Control of Switched Reluctance Motors Over the Entire Operating Range <i>Niazi Yasaman</i> , Nahid-Mobarakeh Babak	Canada
12:10 15m		Paper ID 93 - Systematic error correction of SUMO traffic simulator's HBEFA vehicle emission model <i>Varga Balazs</i> , Lulic Zoran, Tettamanti Tamas	Hungary
12:25 15m		Paper ID 58 - Neural network estimators of SoC trained with model-based dataset in BMS for ground electric vehicles <i>Capasso Clemente</i> , Chianese Giovanni, Iannucci Luigi, Veneri Ottorino	Italy
12:40			
1h 33m		Room C	
The ports interoperability to serve the green shipping policy via electrification			
11:10 15m		Opening Round Table Prof. John Prousalidis, Prof. Giorgio Sulligoi, Prof. Federico Silvestro, Prof. Daniele Bosich, Dr. Fabio D'Agostino	Italy
11:25 7m		Luca Lo Schiavo ARERA	Italy
11:32 7m		Damiano Landi Terna	Italy
11:39 7m		Eric Marcone Port Authority of Eastern Adriatic Sea	Italy
11:46 7m		Vittorio Torbianelli Port Authority of Eastern Adriatic Sea	Italy
11:53 7m		Oliviero Giannotti Assoport	Italy
12:00 7m		A. Manos HEDNO	Greece

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
12:07 7m		Fourlaris RAWEW	Greece
12:14 7m		Ioannis Tolia TSO	Greece
12:21 7m		Alex Papalexopoulos Energy Market	Greece
12:28 15m		Discussion & Conclusion	
12:43			
1h 35m		Outdoor	
EV Exhibitor			
11:10 1h 35m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
12:45			
12:45 1h 15m		Lunch	Via Partenope, 36, 80121 NAPL ES Room Refreshment Rb1 - 1st Floor
14:00 1h 30m		Oral Session & EU Project & Exhibitor 28/11/2024	
1h 30m		Room A	
Road Vehicles III			
14:00 15m		Paper ID 118- Combined Control of a Segmented Stator Switched Reluctance Motor Drive for an Electric Motorcycle <i>Andrada Pere</i> , Blanqué Balduí, Monjo Lluís, Kobeaga Pol, Bravo Joel	Spain
14:15 15m		Paper ID 39 - Frequency-Domain Sensitivity Analysis Method for Mitigation of Automotive Power Supply Disturbances <i>Gerten Michael</i> , Frei Stephan	Germany
14:30 15m		Paper ID 106 - Centralized Diagnosis of On-Board Power Supply Network Faults with LSTM-Networks <i>Rübartsch Marvin</i> , Schwierz Martin, Wang Qingping, Frei Stephan	Germany
14:45 15m		Paper ID 79 -Characteristics of Battery-Internal-Heating Method involving dq-axis Current Pulsation in Permanent Magnet Synchronous Motors during Electric Vehicle Operation <i>Hasegawa Ryuhei</i> , Kondo Keiichiro, Funayama Chikako, Imura Akihiro	Japan
15:00 15m		Paper ID 17 - Smooth Pole Change Method for Multiphase Induction Motor Drive System <i>Kobayashi Momoka</i> , Doki Shinji, Kato Hirotaka, Ito Jun-ichi, Kobayashi Masashi	Japan
15:15 15m		Paper ID 92 - Loss characteristics of PMSM drive system for inverter switching <i>Kokago Takumi</i> , Kondo Keiichiro, Aiso Kohei, Aoki Yasuaki, Imai Koji, Oishi Ryohei	Japan
15:30			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
1h 15m		Room B	
Railway and Rolling Stock Electrical Systems Track II			
14:00 15m		Paper ID 174 - System Model for Initial Charging of a New Battery Set Using Grid and Solar PV System for Railway Applications <i>SAPAWAT JITESH KUMAR</i> , Miyatake Masafumi	Japan
14:15 15m		Paper ID 183 - Real Time Energy Supervision for Battery Storage System in a Hybrid DC Railway Smart Grid <i>Shmaysani Mhamad</i> , Almaksour Khaled, Caron Hervé, Robyns Benoit, Saudemont Christophe	France
14:30 15m		Paper ID 22 - Estimating Cost Benefit of Supply-Demand Adjustment Utilizing Railway Onboard Batteries Based on their Deterioration Test <i>Watanabe Aruto</i> , Taguchi Yoshiaki	Japan
14:45 15m		Paper ID 99 - A Method for Determining Substation Output Voltage for Energy Saving Focused on Regenerative Train FC Voltage in DC-Electrified Railway <i>Ohata Ryosuke</i> , Kondo Keiichiro, Kobayashi Hiroyasu, Nishi Kentaro, Suzuki Takashi, Yoshinaga Takashi, Takahashi Ryo	Japan
15:00 15m		Paper ID 217 - Multi-objective design of a bidirectional DC-DC converter for battery-powered locomotive <i>Simone Palazzo</i> , Antonio Fusaro, Emanuele Martano, Giovanni Canale Parola, Enzo de Santis, Annunziata Sanseverino, Francesco Velardi, Giovanni Busatto	Italy
15:15			
1h 30m		Room C	
Special Session on Power Sources and Drives for Electric Vehicles			
14:00 15m		Paper ID 107 - Gradient-Based Predictive Pulse Pattern Control for Permanent Magnet Synchronous Motor Drives <i>Benevieri Alessandro</i> , Karamanakos Petros, Formentini Andrea, Marchesoni Mario	Italy
14:15 15m		Paper ID 186 - An Innovative Discrete-Time dq-Axis Model Considering Phase Discretization Error for High-Speed IM Drive And Its Analysis <i>FANG Zhifa</i> , DOKI Shinji	China
14:30 15m		Paper ID 24 - Multilevel level inverter for EV charging via hybrid storage unit (Fuel Cell, Battery, Ultracapacitor) <i>Ioana-Cornelia Gros</i> , Daniel Fodorean	Romania
14:45 15m		Paper ID 132 - Real-Time Hardware In the Loop simulation setup for automotive grid interfacing system based on PLECS RT BOX and National Instruments PXIe <i>Ioana-Cornelia Gros</i> , Lucian-Nicolae Pintilie, Petre-Dorel Teodosescu, Horia-Cornel Hedesiu, Vasile-Mihai Suciu, Adrian-Mihai Iuoras	Romania
15:00 15m		Paper ID 185 - Integration of Electric Vehicles Charging Infrastructure with Renewable Energy Sources in Urban Environments : Modeling and Optimization Perspectives <i>Rusinaru Denisa</i> , Mircea Paul Mihai, Buzatu Cosmin Gabriel, Manescu Leonardo Geo, Bratu Cristian	Romania
15:15 15m		Paper ID 214 - Electric Propulsion System with Hybrid Powertrain Equipped with Diesel/Gas Generators and Battery-Buffered AC Common Bus for LNG Ships <i>Savrun Murat Mustafa</i> , Sari Taha Bugra, Senler Orçun	Turkey
15:30			
1h 30m		Room Magna	
14:00 1h 30m		Clustering Activity EU Project V-Access, AENEA, Nemoship, Poseidon General Assembly Meeting	Room Magna - 1st Floor
15:30			
1h 30m		Outdoor	
EV Exhibitor			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
14:00 1h 30m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
15:30			
15:30 30m		Coffee break	Via Partenope, 36, 80121 NAPL ES Room Refreshment Rb1 - 1st Floor
16:00 1h 30m		Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024	
1h 30m		Room A	
Road Vehicles V			
16:00 15m		Paper ID 232 - Rule-Based Strategy for Optimal Energy Management in Battery-Supercapacitor Hybrid Electric Vehicles <i>Noui Meryem</i> , Achour Yahia, Lashab Abderezak, Benidir Mohamed	Algeria
16:15 15m		Paper ID 113 - Continuous Wireless Power Supply with Solid-State Transformers for a Bidirectional Integrated System in a Light EV Using In-wheel PMSM <i>POPESCU Liviu</i> , PREDESCU Dragos, BOSTAN Valeriu, GRIVA Giovanni	Romania
16:30 15m		Paper ID 29 - Optimization of Sensor Setup and Filter Frequency for End-of-Line Partial Discharge Testing of Electrical Machines <i>Rauscher Andreas</i> , Stenzel Peer, Endisch Christian	Germany
16:45 15m		Paper ID 109 - Systematic Approach to Design, Modeling and Characterization of Externally Excited Synchronous Machines for Traction Applications <i>Henke Markus</i> , Sharaf Abdullah	Germany
17:00 15m		Paper ID 65 - Implementation and Preliminary Testing of 26 kW Induction Machine in an Electric Traction System <i>VELAZQUEZ-ELIZONDO PEDRO-ENRIQUE</i> , Guerra-Elguera Anahi, GONZALEZZ-RAMIREZ MIGUEL-ANGEL, ARAUJO-VARGAS ISMAEL, CANO-PULIDO KEVIN, MONDRAGON-ESCAMILLA NANCY	Mexico
17:15 15m		Paper ID 45 - Design and Method for an Experimental Setup to evaluate the Heat Transfer in a Watercooled Eddy Current Brake <i>Köhler Christoph</i> , Holtmann Christoph, Rinderknecht Frank	Germany
17:30			
1h 30m		Room B	
Special Session on MW-Charging System			
16:00 5m		Welcome and General Introduction <i>E. Bilbao, Á.Reina</i>	IKERLAN, BRING VZW
16:05 15m		Scenarios for the future of sustainable transportation <i>S. Moqaddamerad</i>	University of Strathclyde
16:20 15m		Road to MW Charging systems; the Heliox approach <i>T. Gerrits</i>	HELIOX BV-SIEMENS
16:35 15m		Marine Charging standardization – proposals from HYOBATT <i>G. Gommer</i>	Wabtec
16:50		Digitalization of Energy charging systems <i>E. Bilbao, Á.Reina</i>	IKERLAN, BRING VZW

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
15m			
17:05 15m		Megawatt charging of Ships – connections beyond the hull <i>P. Rampen</i>	DAMEN
17:20 10m		Questions and Farewell	All
17:30			
		Room C	
16:00			
1h 30m		Room Magna	
16:00 1h 30m		Clustering Activity EU Project V-Access, AENEA, Nemoship, Poseidon General Assembly Meeting	Room Magna - 1st Floor
17:30			
30m		Room A1	
Poster Session			
16:00 1m		Paper ID 227 - Experimental identification of the Inrush Safety Regions in single-phase power transformers <i>Balato Marco</i> , Di Pasquale Antonio, Clemente Carmine Stefano, Liccardo Annalisa, Pagano Mario, Petrarca Carlo, Visone Ciro	Italy
16:01 1m		Paper ID 169 - Research on Parallel Control Method for More Electric Aircraft High Voltage DC Electric Power System Considering Line Impedance <i>Wang Yonggan</i> , Yang Shanshui, Wang Li	China
16:02 1m		Paper ID 95 - Two-Stage Current Limiting Control Strategy For DC Solid-State Power Controller <i>Wang Li</i> , Huang Mingqiang, He Yongsheng, Yang Shanshui, Li Xing	China
16:03 1m		Paper ID 102- A Diagnosis Method for Open-Switch Faults in Open-Winding Sinusoidal Doubly Salient Electromagnetic Machine Drive System <i>Zhou Bo</i> , Yin Yujie , Fang Wenjing, Xie Xie, Wang Huizhen	China
16:04 1m		Paper ID 100- A Position Sensorless Startup Method for DSEM Based on Pulse Injection <i>Zhou Bo</i> , Xie Xie, Fang Wenjing, Yin Yujie, Wang Huizhen	China
16:05 1m		Paper ID 101 -Common Mode Voltage Suppression Strategy for Third-Harmonic Injection Two-Stage Matrix Converter <i>Zhou Bo</i> , Shi Yaotian, Chang Qingyun, Lu Chengjia, Wang Huizhen, Meng Xiaoli	China
16:06 1m		Paper ID 103 - Position Estimation for Sinusoidal Doubly Salient Electromagnetic Machine Considering Cross-Coupling Effect <i>Zhou Bo</i> , Huang Yang, Yu Xiaodong, Huang Yurong, Wang Huizhen, Meng Xiaoli	China
16:07 1m		Paper ID 8 - A potential 15 kVdc catenary-fed rail induction motor drive at 780 kW, 1.5-3 krpm: preliminary design and key FEM validation <i>Ali Salman</i> , Boldea Ion, Tutelea Lucian, Popa Ana Adela, Marignetti Fabrizio	Italy
16:08 1m		Paper ID 42 - A Novel Empiric Model-Based Classification Algorithm for Fault Detection in DC Railway Systems <i>Lanzarotto Damiano</i> , Wallart Francois, Leclere Loic	France
16:09 1m		Paper ID 7 - 150 kVA Compact modular three-level NPC Auxiliary converter for the Railways Application <i>Rong Xiaoyun</i> , Dou Zechun, Jain Prashant, Qi Yu, Liu Bin, Li Chengxi, Zhu Qingwei, Shen Chengjun	UK
16:10 1m		Paper ID 36 -Configuration Research of the Multi-Mode Hybrid Electric Vehicles with Two Electric Machines <i>zou yunge</i> , Zhang yuxin, Yang Yalian	China

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
16:11 1m		Paper ID 5 - Integrated Framework for Initial Position Estimation and Self-Commissioning of SRM Using Voltage Signals <i>Gholaminejad Azadeh</i> , Nahid-Mobarakeh Babak	Canada
16:12 1m		Paper ID 25 - A Novel Isolated Connector for Bidirectional Direct V2V Charging Using Onboard Chargers Chong Benjamin, Zhou Renwentai	UK
16:13 1m		Paper ID 120 - Dynamic Wireless Power Transfer Optimization Using Adaptive Termination in Center-Fed Resonant Array <i>Dinis Joao</i> , Alberto José, Marques Cardoso Antonio J.	Portugal
16:14 1m		Paper ID 181 - An LLC-DAB Hybrid Converter with High Input-Output Voltage Ratio Based on an Integrated Matrix Transformer <i>Yang Xiaodong</i> , Xiao Lan, Wu Qunfang, Zhao Wenjie, Chen Wenlong	China
16:15 1m		Paper ID 53 - A quantitative approach to measure the resilience of freight transport utilizing battery-electric trucks <i>Mauch Lars</i> , Otteny Felix, Kilic Cem	Germany
16:16 1m		Paper ID 12 - The present status of the extremely high-power charging systems <i>Suojansalo Rasmus</i> , Aarniovuori Lassi, Korhonen Juhamatti, Peltoniemi Pasi	Finland
16:17 1m		Paper ID 182 - An Improved Feature-Position-Based Sensorless Direct Torque Control Scheme for SRM Drives at Medium-High Speeds <i>Tian Chongyang</i> , Nahid-Mobarakeh Babak	Canada
16:18 1m		Paper ID 74 - A Methodology to Assess the Sustainability of Motors for Electric Vehicles <i>Bhagat Prithvi</i> , Jones Dr.Catherine, Miscandlon Dr.Jill	UK
16:19 1m		Paper ID 69 - Modeling and Control of a Direct Current Ferry Shipboard Power System <i>Boujoudar Younes</i> , Micallef Alexander, APAP Maurice, Sciberras Edward, Rampen Peter	Malta
16:20 1m		Paper ID 32 - Quasi-Square-Wave PWM Modulation for Modular Multilevel Converter in Variable Speed Motor Drives with Self Voltage Recovery <i>Xia Peizhou</i> , Zhang Xinyun, Finney Stephen	UK
16:21 1m		Paper ID 43 - Maximizing the energy-saving potential of declutchable BEV powertrains via Eco-driving <i>Xu Yu</i> , Lokur Prashant, Klacar Simon, George Shino, Andersson Andreas, Sedarsky David, Murgovski Nikolce	Sweden
16:22 1m		Paper ID 27 - Reverse Engineering-Based Modeling of an EV Motor Drive for Digital Twin Development <i>Ibrahim Mahmoud</i> , Rassólkin Anton, Rjabtšikov Viktor	Estonia
16:23 1m		Paper ID 46 - Extraction of Ferrite Material Properties and Application to Simulation-Based Common-Mode Filter Design <i>Konrad Werner</i> , Hackl Herbert, Stoiber Martin	Slovenia
16:24 1m		Paper ID 73 - Design-Method of a High Power Eddy Current Brake as a Retarder for electric Trucks <i>Holtmann Christoph</i> , Köhler Christoph, Weber Christian, Möckel Andreas	Germany
16:25 1m		Paper ID 151 - On Control of the Auxiliary Current Space Vector of Dual Three-Phase Permanent Magnet Motors <i>Sala Giacomo</i> , Mancini Marianna, Antonino Cagliari Gabriele, Femia Antonio, Vancini Luca, Rizzoli Gabriele, Nuzzo Stefano	Italy
16:26 1m		Paper ID 148 - Exploration of Partial Power Converter Topology for Fuel Cell Multi-Stack Systems in Heavy-Duty Applications <i>SIAD Ines</i> , BATTISTON Alexandre, LEROY Thomas, MARTIN Jean-Philippe, PIERFEDERICI Serge	France
16:27 1m		Paper ID 11 - Performance comparison of inductive charging systems for electric buses <i>Di Noia Luigi Pio</i> , Attaianesi Ciro, Del Pizzo Andrea	Italy
16:28 1m		Paper ID 150 - High Efficiency Smart Urban Mobility Method <i>Eelis Hytönen</i> , Lassi Aarniovuori, Jussi Niemioja and Dong Li	Finland

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
16:29 1m		Paper ID 207 - State of Health Estimation of LiCoO2 Cells based on Impulse Response and ARMAX Identification <i>Piegari Luigi</i> , Barcellona Simone, Ribera Mattia, Fedele Emanuele, Codecasa Lorenzo, Iannuzzi Diego	Italy
16:30			
1h 30m		Outdoor	
EV Exhibitor			
16:00 1h 30m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
17:30			
↓1h 30m			
19:00 3h 00m		GALA DINNER - D'Angelo	Aniello Falcone Street
22:00			

TOTAL LENGTH: 14h 00m

■ Registration
 ■ KeyNote Session
 ■ Ship
 ■ Special Session
 ■ EU project
 ■ Exhibitor
 ■ break
 ■ Mobility
 ■ Workshop
 ■ AI Track
 ■ Opening Session

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
08:00 30m		Registration	Secretary Desk- Ground Floor
Keynote Session			
08:30 40m		Sailing into the future: The Role of Direct Current in Ship Electrification Andrea Colavitto - Head of Research & Innovation at Fincantieri SI	Via Partenope, 36, 80121 NAPL ES Room Magna - 1st Floor
09:10 1h 30m		Oral Session & EU Project & Exhibitor 29/11/2024	
1h 30m		Room Magna	
SHIPBOARD ELECTRICAL SYSTEMS I			
09:10 15m		Paper ID 197 - Reinforcement Learning Based Energy Management System to Maximize Efficiency for the Hybrid Marine Propulsion System <i>Albakri Saeed</i> , Mehran Kamyar, Gadoue Shady	UK
09:25 15m		Paper ID 90 - PPL Integration Employing SMES System on Naval Vessel: Modeling and Co-simulation <i>D'Agostino Fabio</i> , Cepollini Pietro, Kaza Daniele, Roncagliolo Daniele, Silvestro Federico, Chiarelli Antonio	Italy
09:40 15m		Paper ID 89 - Status and future trends of electrification-based solutions for efficiency-oriented ship retrofitting <i>Di Piazza Maria Carmela</i> , Pucci Marcello, Iafrati Alessandro	Italy
09:55 15m		Paper ID 195 - Evaluation of a Dual MLC2 Converter for Electrified Ship Propulsion Application <i>Dias Bellar Maria</i> , Martins Diogo	Brasil
10:10 15m		Paper ID 153 - Impact of Counting Methods & Objectives on Expected Battery Lifetime & Fuel Consumption <i>Durgaprasad Sankarshan</i> , W. van Keulen Lars, Polinder Henk, Coraddu Andrea	Netherland
10:25 15m		Paper ID 80 - Optimal Energy Management of FC-Battery Shipboard Power System using Dynamic Programming <i>Kopka Timon</i> , Coraddu Andrea, Polinder Henk	Netherland
10:40 1h 30m		Room A	
Special Session on Advancements in Sustainable Propulsion Technologies for Ground, Maritime and Air Transportation			
09:10 15m		Paper ID 202 - Double Stator Axial airgap Spoke-PMSM Performance Investigation for high torque density by 3D FEM with a direct drive powertrain case study <i>Ali Salman</i> , Boldea Ion, Marignetti Fabrizio, Qadeer Neelam, Tutelea Lucian	Italy
09:25 15m		Paper ID 63 - Sensorless Start-up Synchronization of Multi-3-Phase Segmented PMSM for Electrical Aircraft Propulsion Systems <i>Baum Lukas</i> , Grumm Florian, Schulz Detlef	Germany
09:40 15m		Paper ID 203 - Inner claw-pole stator outer PM rotor small synchronous motor/actuator for vehicular service technologies: 3D-FEM simulation and experimental test <i>Ciprini Luca</i> , Martin Adrian Daniel, Isfanuti Andy-Sorin, Tutelea Lucian Nicolae, Marignetti Fabrizio, Boldea Ion	Italy

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
09:55 15m		Paper ID 201 - Robustness Assessment of Dual Vector Control in DFIM with Stator Flux Orientation for Clean Maritime Propulsion <i>Youssef DRIMIZI</i> , Maria PIETRZAK-DAVID, Pascal Maussion	France
10:10 15m		Paper ID 76 - Decoupled Levitation and Propulsion Control of Single-Sided Linear Induction Motors <i>Rametti Simone</i> , Pierrejean Lucien, Hodder André, Paolone Mario	Switzerland
10:25 15m		Paper ID 233- Multi-Phase Fault Tolerant MW Range Synchronous Machine Drives for Hybrid-Electric Aircraft <i>Tenconi Alberto</i> , Molina Matías Jiménez, Perilli Lorenzo, Crescimbinì Fabio, Vita Leonardo, Tursini Marco, Credo Andrea, Fabri Giuseppe, Tani Angelo, Bellini Alberto, Cagliari Gabriele Antonino, Sala Giacomo	Italy
10:40			
1h 30m		Room B	
09:10 1h 30m		V-ACCESS General Assembly Meeting	Room B - Ground Floor
10:40			
1h 30m		Room C	
Special Session on Digital Twin Technologies in Modern Transportation Systems			
09:10 15m		Paper ID 158 - State-Space Modeling of Protection Circuits for Electronic Fuses in Vehicular Power Systems <i>Baumann Martin</i> , Shen Pengxin, Mayer Christoph, Eisenmann Bastian, Camacho Molina Samantha, Herzog Hans-Georg	Germany
09:25 15m		Paper ID 51 - Model-based fault diagnosis for large-scale marine battery systems <i>Reiter Alexander</i> , Lehner Susanne, Bohlen Oliver, Sauer Dirk Uwe	Germany
09:40 15m		Paper ID 122 - Modular representation of Components to Enable Generative Engineering <i>Vepsäläinen Jari</i> , Malik Rohail, Ahmad Muhammad	Finland
09:55 15m		Paper ID 212 - Analysis of an Equivalent Consumption Minimization Strategy for a Fuel Cell Electric Aircraft <i>Penta Marco</i> , Fedele Emanuele, Manrique Camilo, Iannuzzi Diego, Accardo Grazia	Italy
10:10 15m		Paper ID 142 - Cloud-Based Digital Twin for Optimized Multi-Megawatt Charging Control Strategies in Maritime Applications <i>Elezgarai Gorka</i> , Mascaro Vincenzo, Lopez Mikel, Zwysen Jeroen, Reina Alvaro, Bilbao Endika, Villar Irma, Worigi Imane, Kostalas George	Spain
10:25 15m		Paper ID 245 - Recurrent Neural Network Vs Kalman Filter for Development of Digital Twin of DC-DC Converters <i>Pasquale Franzese</i> , Benjamin J Jessie, Babak Fahimi, Diego Iannuzzi	Italy
10:40			
1h 30m		Outdoor	
EV Exhibitor			
09:10 1h 30m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
10:40			
10:40 30m		Coffee Break	Via Partenope, 36, 80121 NAPL ES Room Refreshment - 1st Floor

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
11:10 1h 50m		Oral Session & EU Project & Round Table & Exhibitor 29/11/2024	
1h 15m		Room Magna	
SHIPBOARD ELECTRICAL SYSTEMS II			
11:10 15m		Paper ID 91- Gate Driver Design for Solid-State Circuit Breaker with Integrated Latch Current Limiter in Shipboard DC Systems <i>Latorre Alejandro</i> , Batista Soeiro Thiago, Geertsma Rinze, Polinder Henk	Netherland
11:25 15m		Paper ID 139 - Optimizing Fuel Consumption of a Dual-Fuel Full-Electric Vessel Using Model Predictive Control <i>Löffler Charlotte</i> , Geertsma Rinze, Polinder Henk, Coraddu Andrea	Netherland
11:40 15m		Paper ID 81 - Design of a Test Bench for 1.5kV Solid State Circuit Breaker for Transport Electrification <i>Meraj Mohammad</i> , Weston Paul, Tricoli Pietro	UK
11:55 15m		Paper ID 98 - Load Profile Estimation for Electric Power Load Analysis <i>Silvestro Federico</i> , D'Agostino Fabio, Kaza Daniele, Gallo Marco, Benevieri Fabio	Italy
12:10 15m		Paper ID 146 - Refitting a cruise ship with more electric power & energy systems: a methodology to evaluate the impact on fuel efficiency <i>Vicenzutti Andrea</i> , Braidotti Luca, Utzeri Samuele, Bucci Vittorio, Sulligoi Giorgio	Italy
12:25			
1h 00m		Room A	
INFRASTRUCTURES FOR E - MOBILITY AND H- MOBILITY			
11:10 15m		Paper ID 88- Multiobjective System Sizing for Heavy-Duty Electric Vehicle Charging Stations <i>Shams Ashkezari Leila</i> , Ram Chandra Mouli Gautham, Yorke-Smith Neil, Bauer Pavol	Netherland
11:25 15m		Paper ID 129 - Optimal Sizing of a Multi-Energy Port with Vehicles Charging Capabilities <i>Silvestro Federico</i> , Gallo Marco, Saviozzi Matteo, D'Agostino Fabio, Kaza Daniele	Italy
11:40 15m		Paper ID 127 - Mobile EV Charging: Design, Optimization and Evaluation of Battery-Integrated Robots to Improve Electric Mobility <i>Sulecik Arda Fikret</i> , Agudin Alvaro Menendez, Bauer Pavol	Netherland
11:55 15m		Paper ID 157 - Exploring the Potential Demand Side Flexibility of a Microgrid: A Case Study at a Multi-Functional Building in Uppsala, Sweden <i>Tibaldi Martina</i> , Wallberg Alexander, Martins Mattos Marina, Waters Rafael, Castellucci Valeria	Sweden
12:10			
1h 50m		Room B	
11:10 1h 50m		V-ACCESS General Assembly Meeting	Room B - Ground Floor
13:00			
1h 40m		Room C	
Round Table - Towards a Full Batteries Supply Chain In Italy and EU			
11:10 10m		Introduction Ciro Attaianese & Diego Iannuzzi	Italy
11:20 15m		Maurizio Maggiore Formerly Policy Officer European Commission – Research and Innovation Department (RTD)	USA

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
11:35 15m		Federico Vitali FAAM – FIB SpA	Italy
11:50 15m		Lorenzo Orsini ALKEMIA SpA	Italy
12:05 15m		Matteo Cavalletti MIDAC SpA	Italy
12:20 15m		Peter Qvarfordt REGENERATE TECHNOLOGY	Sweden
12:35 15m		Discussion & Conclusion Ciro Attaianese & Diego Iannuzzi	Italy
12:50			
1h 50m		Outdoor	
EV Exhibitor			
11:10 1h 50m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
13:00			
13:00 1h 30m		Lunch	Via Partenope, 36, 80121 NAPL ES Room Refreshment - 1st Floor
14:30 1h 30m		Oral Session & EV exhibitor 29/11/2024	
1h 30m		Room Magna	
Special Session on Electrical Power Sources and Energy Storage Systems for Sustainable Transportation			
14:30 15m		Paper ID 191- Driving Conditions Leading to Thermal Runaway in Li-Ion Battery EV's <i>Azuaje-Berbeci Bernardo</i> J., Ertan H. Bulent	Turkey
14:45 15m		Paper ID 178 - Battery Modeling for Road Vehicles Application: a Comparative Study <i>Campagna Nicola</i> , Bossi Giuseppe, Fedele Emanuele, Miceli Rosario, Damiano Alfonso, Rizzo Renato	Italy
15:00 15m		Paper ID 86 - Kinetic Energy Recovery System for Electric Buses: A Method for Extending Mileage Range <i>Elgenedy Mohamed</i> , Singh Dharminder, Coman Chris	UK
15:15 15m		Paper ID 141 - Feature Identification and Extraction for Battery Aging Estimation in Aircraft Auxiliary Applications <i>Gauchia Lucia</i> , Shekhar Shivanshu, Amaris Hortensia, Sargadui Jon	Spain
15:30 15m		Paper ID 115 - Analytical Approach to Define the Stability Boundaries in Controlled DC Microgrids <i>Bosich Daniele</i> , Tavagnutti Andrea Alessia, Sulligoi Giorgio	Italy
15:45 15m		Paper ID 164 - Techno-Economic Investigation of Power Systems for a Decarbonized Naval Sector <i>Nevoloso Claudio</i> , Caruso Massimo, Schettino Giuseppe, Miceli Rosario, Passalacqua Matteo, Mantelli Luca, Traverso Alberto	Italy
16:00			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
1h 15m		Room A	
INFRASTRUCTURES FOR E - MOBILITY AND H- MOBILITY			
14:30 15m		Paper ID 165 - Impact Assessment of Electric Vehicles Charging on the Loss of Life of Distribution Transformers <i>Bande Rasmene</i> , Toquica David, Kelouwani Souso, Agbossou Kodjo, Kloutse Follivi	Canada
14:45 15m		Paper ID 131 - Energy management algorithm for an advanced EV fast-charging system with bipolar DC-link, energy storage and photovoltaics integration <i>Kopacz Rafal</i> , Kalinowski Krzysztof, Miskiewicz Rafal, Rabkowski Jacek	Poland
15:00 15m		Paper ID 54 - Cost Analysis of Megawatt Charging and Overnight Charging for Battery Long-Haul Trucks <i>Otteny Felix</i> , Mauch Lars, Klausmann Florian, Dörr Julian, Litauer Rebecca Elena, Lanz Luca	Germany
15:15 15m		Paper ID 143 - Cross-compartment Virtio-loopback: a bare-metal virtualization solution for the edge <i>Panagopoulou Anna</i> , Rigo Alvise, Raho Daniel	Greece
15:30 15m		Paper ID 246 - Small vs large BEV and ICE vehicles: a few real life clarifications <i>M. Maggiore, G. Pede</i>	Italy
15:45			
1h 00m		Room B	
AI AND SOFTWARE SYSTEMS FOR TRANSPORTATION ELECTRIFICATION			
14:30 15m		Paper ID 190 - AI-Enabled Security Framework for VANETs: Detecting Position Falsification Attacks <i>Bassiony ilrahim</i> , morsy sherif, salama gouda	Egypt
14:45 15m		Paper ID 236 - Sailing Towards Efficiency: A Variational Mode Decomposition Based Approach to Forecasting Shipboard Electrical Power Consumption <i>Di Piazza Maria Carmela</i> , Fazzini Paolo, La Tona Giuseppe, Diez Matteo	Italy
15:00 15m		Paper ID 114 - Fault Diagnosis of Aircraft Power Systems Based on Transients and Artificial Intelligence <i>Guzman Ian</i> , Babiceanu Radu	USA
15:15 15m		Paper ID 173 - Multi-objective Control of Urban Railway Speed with Deep Reinforcement Learning <i>Lyu Mingyu</i> , Geng Haoran, Pinon Pereira Dias Joao Victor, Miyatake Masafumi	Japan
15:30			
1h 00m		Outdoor	
EV Exhibitor			
14:30 1h 00m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPL ES
15:30			
1h 15m		Room C	
Special Session on Electrical Power Sources and Energy Storage Systems for Sustainable Transportation			
14:30 15m		Paper ID 200 - Ethanol and Renewable Diesel as Agile Solutions in Emerging Countries to Achieve NET Zero ASAP <i>Labigalini Marcio</i> , Barreto Gilmar	Brasil

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
14:45 15m		Paper ID 210 - Integration of Free Piston Linear Generator and Battery Pack in Hybrid Vehicles Mostacciuolo Elisa , Baccari Silvio, Beatrice Carlo, Capasso Clemente, Capuano Francesco, Continillo Gaetano, Iannelli Luigi, Liuzza Davide, Rubino Luigi, Saviano Raffaele, Vasca Francesco, Veneri Ottorino	Italy
15:00 15m		Paper ID 115 - Comparative study of passive and active reconfigurable equalizer for lithium-ion cells Rubino Luigi , Cuomo Giuseppe, Rubino Guido, Ferrarello Rosario, Simonelli Domenico	Italy
15:15 15m		Paper ID 219 - Plant simulation of a methanol fueled HT PEM Fuel Cell for Ship Propulsion Scamardella Filippo , Garibaldi Davide, Bianchi Fiammetta Rita, Altosole Marco, Balsamo Flavio, Bosio Barbara	Italy
15:30 15m		Paper ID 211 - Parameter Determination of Synchronous Generators Using Load angle Estimation Considering Saturation Effect Khanzadeh Omid , Vahedi Abolfazi, Takorabet Noureddine, Marignetti Fabrizio	Iran
15:45			
16:00 20m		Closing Session ESARS-ITEC 2024	Room Magna - 1st Floor
16:20			

TOTAL LENGTH: 8h 20m