

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 Degradation 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

Pre-Registration -HALL

14:00
4h 00m **Conference Registration**

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Secretary Desk- Ground Floor

Pre-Registration -Room B

14:00
30m **EU project Registration**

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Secretary Desk- Ground Floor

14:30
4h 00m **EU Project - HYPOBATT**

General Assembly Meeting

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room B - Ground Floor

Pre-Registration -Room A

14:00
1h 00m **Conference Registration**

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Secretary Desk- Ground Floor

15:00
3h 00m

Tutorial

Battery Degradation and Safety with Application from Vehicles and Grid Storage
Prof. Anna G. Stefanopoulou (University of Michigan)

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room A- Ground Floor

End of Pre-Registration

18:30
1h 00m

Break

ADDITIONAL INFORMATION

End registration

19:30
2h 00m

Welcome to Circolo Savoia

ADDITIONAL INFORMATION

[Banchina S. Lucia, 13, 80132 Napoli NA](#)

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

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
08:00 45m		Registration	Via Partenope, 36, 80121 NAP LES 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 NAP LES 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 NAP LES Room Magna - 1st Floor
10:10 40m		Moving Toward Ubiquitous Charging Of Electric Vehicles Innovation and Sustainability - Presentation of the High Speed Train TGV M Eng. Didier Frugier - Rolling Stock Engineering Centre, SNCF	Via Partenope, 36, 80121 NAP LES Room Magna - 1st Floor
10:50 30m		Coffe Break	Via Partenope, 36, 80121 NAP LES 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 211 - Parameter Determination of Synchronous Generators Using Load angle Estimation Considering Saturation Effect <i>Khanzadeh Omid</i> , Vahedi Abolfazl, Takorabet Nouredine, Marignetti Fabrizio	Iran
12:20 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
12:35			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
1h 15m	Room A		
Road Vehicles I			
11:20 15m		Paper ID 10 - Component sizing of single-motor heavy-duty powertrains <i>Arend Jannik, Ayeb Mohamed</i>	Germany
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, Ali Basit, S. A. Alsunjiry Mothanna, Tricoli Pietro</i>	UK
11:50 15m		Paper ID 15 - GaN-based Resonant Energy Transfer System for EV-Drives with Electrical Excitation <i>Liebetrau Florian, Haller Fenja, Weber Christian, Rinderknecht Frank</i>	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, Spielmann Hagen, Weber Christian, Rinderknecht Frank</i>	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, Winke Florian, Jungen Mario, Schmiedler Stefan, Hofmann Peter, Geringer Bernhard</i>	Germany
12:35			
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, Kergus Pauline, Regnier Jérémi, Jaafar Amine, Turpin Christophe, Boucharel Paul, Lachaize Jérôme, Afri Chouaib, Tognan Malik</i>	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, Cousineau Marc, Castelane Anne, Romeo Dominique, Rolland Eric</i>	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, Gateau Guillaume, Cousineau Marc, Bachouch Latifa, Santiago Erik</i>	France
12:05 15m		Paper ID 188 - Impacts of using different semiconductor technologies on drivetrain optimization <i>Byden Hannes, Domingues Gabriel, Lu Meng</i>	Sweden
12:20 15m		Paper ID 172 - Comprehensive Numeric-Based Selectivity Analysis of Vehicular Electronic Fuses' Wire Protection Algorithms <i>Mayer Christoph, Baumann Martin, Herzog Hans-Georg</i>	Germany
12:35			
1h 25m	Room B		
11:20 1h 25m		EU Project - HYPOBATT 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			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
12:45 1h 15m		Lunch	Via Partenope, 36, 80121 NAP LES Room Refreshment Rb1 - 1st Floor
14:00 1h 45m		Oral Session & EU Project & Exhibitor 29/11/2024	
1h 15m		Room Magna	
Railway and Rolling Stock Electrical Systems Track I			
14:00 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</i> , Starke Stefan	Netherland
14:15 15m		Paper ID 14- Train Control System Independent of Communication Transmission Paths <i>Iwamoto Koki</i> , Kitano Takayasu, Gion Akihiro	Japan
14:30 15m		Paper ID 94 - Improvement of utilizing Renewable Energy by applying Stationary Energy Storage Systems in DC traction power supply system <i>Konishi Takeshi</i> , Ogata Takamitsu	Japan
14:45 15m		Paper ID 187 - Sizing and Energy Management System of Hybrid DC Railway Substation <i>Mohammed Reda SAOUTHI</i> , Stéphane BRISSET, Christophe SAUDEMONT, Tony Letrouve	France
15:00 15m		Paper ID 105 - An Integrated Control Method for Stationary and Onboard Energy Storage Systems on DC Electrified Railway <i>Ogata Takamitsu</i> , Saito Tatsuhiro, Konishi Takeshi	Japan
15:15			
1h 30m		Room A	
Road Vehicles IV			
14:00 15m		Paper ID 162 - Integrated NMPC-Based Control for in-wheel-motored Rear-wheel drive Electric Vehicles <i>Khan Muhammad Umer</i> , Aydemir Ali Bhadir, Nobahar Amir, Ertan Bulent, Arikan Kukluk	Turkey
14:15 15m		Paper ID 84- Automation test method and HILS environment configuration for Hydrogen storage system Management Unit verification <i>Kim Jaejeong</i> , Lee Jungin, Hong Jeongmin	South Korea
14:30 15m		Paper ID 9 - Influence of Current Sensor Faults on the Range of Full Electric Vehicles with PMSM-based Powertrain <i>Di Noia Luigi Pio</i> , Attaianesse Ciro, D'Arpino Matilde, Di Monaco Mauro	Italy
14:45 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
15:00 15m		Paper ID 171 - Extended Analytic Selectivity Analysis of a Vehicular Electronic Fuse's Thermal Model-Based Wire Protection Algorithm <i>Mayer Christoph</i> , Baumann Martin, Herzog Hans-Georg	Germany
15:15 15m		Paper ID 179 - Regenerative braking capabilities in e-bike vehicles: comparison between two drive architectures <i>Minervini Marcello</i> , Giangrande Paolo, Corti Fabio, Malighetti Paolo, Mantione Lorenzo	Italy
15:30			
1h 15m		Room C	
Road Vehicles V			
14:00		Paper ID 232 - Rule-Based Strategy for Optimal Energy Management in Battery-Supercapacitor Hybrid Electric Vehicles	Algeria

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
15m		Noui Meryem , Achour Yahia, Lashab Abderezak, Benidir Mohamed	
14:15 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 POPESCU Liviu , PREDESCU Dragos, BOSTAN Valeriu, GRIVA Giovanni	Romania
14:30 15m		Paper ID 29 - Optimization of Sensor Setup and Filter Frequency for End-of-Line Partial Discharge Testing of Electrical Machines Rauscher Andreas , Stenzel Peer, Endisch Christian	Germany
14:45 15m		Paper ID 109 - Systematic Approach to Design, Modeling and Characterization of Externally Excited Synchronous Machines for Traction Applications Henke Markus , Sharaf Abdullah	Germany
15:00 15m		Paper ID 65 - Implementation and Preliminary Testing of 26 kW Induction Machine in an Electric Traction System VELAZQUEZ-ELIZONDO PEDRO-ENRIQUE , Guerra-Elguera Anahi, GONZALEZZ-RAMIREZ MIGUEL-ANGEL, ARAUJO-VARGAS ISMAEL, CANO-PULIDO KEVIN, MONDRAGON-ESCAMILLA NANCY	Mexico
15:15			
1h 45m		Room B	
14:00 1h 45m		EU Project - HYPOBATT General Assembly Meeting	
15:45			
1h 45m		Outdoor	
EV Exhibitor			
14:00 1h 45m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAP LES
15:45			
15:45 30m		Coffee Break	Via Partenope, 36, 80121 NAP LES Room Refreshment Rb1 - 1st Floor
16:15 2h 15m		Oral Session & EU Project & Exhibitor 27/11/2024	
1h 30m		Room Magna	
BATTERY CHARGING INFRASTRUCTURES			
16:15 15m		Paper ID 167 - A mixed-integer charging schedule for electric vehicles with request-dependent pricing Ghavami Mahsa , Liuzza Davide, Mostacciuolo Elisa, Iannelli Luigi, Vasca Francesco	Italy
16:30 15m		Paper ID 123 - Stochastic Mobility Integration into Residential Energy Hubs Slaifstein Dario , 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 Kuperman Alon , 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 Liu Dong , Mattsson Aleks, Korhonen Juhamatti, Aarniovuori Lassi, Jarvisalo Heikki, Lauttamus Panu, Silventoinen Pertti	Finland

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
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	Sweeden
17:30 15m		Paper ID 49-Dispatchable battery swapping system with centralized charging and renewable energy generation <i>Wallander Edvin</i> , J. Márquez-Fernández Francisco	Sweeden
17:45			
1h 45m	Room A		
Energy Storage I			
16:15 15m		Paper ID 61 - Component sizing of single-motor heavy-duty powertrainsAn experimental- and simulation-based performance evaluation of a commercial high-energy cell - the path towards electric aviation? <i>Alexander Fill</i>	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>Porpora Francesco</i> , Martino Giovanni, 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 30m	Room C		
Energy Storage II			
16:15 15m		Paper ID 13 - Power Converter Modulation for Battery SOC <i>Muktar 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 15m		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
17:30 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

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
17:45			
2h 15m	Room B		
16:15		EU Project - HYPOBATT	
2h 15m		General Assembly Meeting	
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

ESARS-ITEC 2024 - **Wednesday 27/11/2024** - block details

08:00
45m

Registration

ADDITIONAL INFORMATION

[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

ADDITIONAL INFORMATION

[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

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Magna - 1st Floor

10:10
40m

Moving Toward Ubiquitous Charging Of Electric Vehicles Innovation and Sustainability - Presentation of the High Speed Train TGV M

Eng. Didier Frugier - Rolling Stock Engineering Centre, SNCF

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Magna - 1st Floor

10:50
30m

Coffe Break

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb - 1st Floor

Oral Session & EU Project & Exhibitor 27/11/2024 -Room Magna

General Track

11:20
15m

Paper ID 20- Introducing the port electric distribution network concept

John Prousalidis, Manos Anastasios, Spathis Dimosthenis

ADDITIONAL INFORMATION

Greece

11:35
15m

Paper ID 149- High-side high-voltage, low-current, and temperature sensor with digital interface for electrospray thrusters monitoring

Francisco José Blázquez-Plaza , Barrado Andrés, Wijnen Mick

ADDITIONAL INFORMATION

Spain

11:50
15m

Paper ID 196 - Swift Quasi-Peak Detector Implementation using Neural Network

Herbert Hackl, Stoiber Martin, Reynvaan Jacob, Auinger Bernhard

ADDITIONAL INFORMATION

Austria

12:05
15m

Paper ID 211 - Parameter Determination of Synchronous Generators Using Load angle Estimation Considering Saturation Effect

Khanzadeh Omid, Vahedi Abolfazl, Takorabet Nouredine, Marignetti Fabrizio

ADDITIONAL INFORMATION

Iran

12:20
15m

Paper ID 231 -Comparative Analysis between SiC Converter Designs based on Parallel-connected Discrete Devices and Power Modules

Francesco Porpora, Marciano Daniele, Di Monaco Mauro, Nardi Vito, Tomasso Giuseppe

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 27/11/2024 -Room A

Road Vehicles I

11:20
15m

Paper ID 10 - Component sizing of single-motor heavy-duty powertrains

Arend Jannik, Ayeb Mohamed

ADDITIONAL INFORMATION

Germany

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

Ashraf Adnan, Ali Basit, S. A. Alsunjury Mothanna, Tricoli Pietro

ADDITIONAL INFORMATION

UK

11:50
15m **Paper ID 15 - GaN-based Resonant Energy Transfer System for EV-Drives with Electrical Excitation**

Liebetau Florian, Haller Fenja, Weber Christian, Rinderknecht Frank

ADDITIONAL INFORMATION

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**

Liebetau Florian, Spielmann Hagen, Weber Christian, Rinderknecht Frank

ADDITIONAL INFORMATION

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**

Metzler Sebastian, Winke Florian, Jungen Mario, Schmiedler Stefan, Hofmann Peter, Geringer Bernhard

ADDITIONAL INFORMATION

Germany

Oral Session & EU Project & Exhibitor 27/11/2024 -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**

RIVIER NOE, Kergus Pauline, Regnier Jérémi, Jaafar Amine, Turpin Christophe, Boucharel Paul, Lachaize Jérôme, Afri Chouaib, Tognan Malik

ADDITIONAL INFORMATION

France

11:35
15m

Paper ID 68 - Power Density optimization of 48V/12V DC-DC converters considering several topologies and semiconductor technologies.

OUADAD Mohammed, Cousineau Marc, Castelane Anne, Romeo Dominique, Rolland Eric

ADDITIONAL INFORMATION

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

Galvis Castellanos Daniel, Gateau Guillaume, Cousineau Marc, Bachouch Latifa, Santiago Erik

ADDITIONAL INFORMATION

France

12:05
15m

Paper ID 188 - Impacts of using different semiconductor technologies on drivetrain optimization

Byden Hannes, Domingues Gabriel, Lu Meng

ADDITIONAL INFORMATION

Sweden

12:20
15m

Paper ID 172 - Comprehensive Numeric-Based Selectivity Analysis of Vehicular Electronic Fuses' Wire Protection Algorithms

Mayer Christoph, Baumann Martin, Herzog Hans-Georg

ADDITIONAL INFORMATION

Germany

Oral Session & EU Project & Exhibitor 27/11/2024 -Room B

11:20
1h 25m

EU Project - HYPOBATT

General Assembly Meeting

ADDITIONAL INFORMATION

Ground Floor

Oral Session & EU Project & Exhibitor 27/11/2024 -Outdoor

EV Exhibitor

11:20
1h 25m **Audi E-tron Q4, Audi E-tron Q6, Nissan Arya**

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 27/11/2024

12:45
1h 15m **Lunch**

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb1 - 1st Floor

Oral Session & EU Project & Exhibitor 29/11/2024 -Room Magna

Railway and Rolling Stock Electrical Systems Track I

14:00
15m **Paper ID 199- Toward Zero-Emissions Construction Sites: Mobile Battery Energy Storage Units Charged from the Regenerative Braking Energy of Traction Grids**

Diab Ibrahim, Starke Stefan

ADDITIONAL INFORMATION

Netherland

14:15
15m **Paper ID 14- Train Control System Independent of Communication Transmission Paths**

Iwamoto Koki, Kitano Takayasu, Gion Akihiro

ADDITIONAL INFORMATION

Japan

14:30
15m

Paper ID 94 - Improvement of utilizing Renewable Energy by applying Stationary Energy Storage Systems in DC traction power supply system

Konishi Takeshi, Ogata Takamitsu

ADDITIONAL INFORMATION

Japan

14:45
15m

Paper ID 187 - Sizing and Energy Management System of Hybrid DC Railway Substation

Mohammed Reda SAOUTHI, Stéphane BRISSET, Christophe SAUDEMONT, Tony Letrouve

ADDITIONAL INFORMATION

France

15:00
15m

Paper ID 105 - An Integrated Control Method for Stationary and Onboard Energy Storage Systems on DC Electrified Railway

Ogata Takamitsu, Saito Tatsuhiro, Konishi Takeshi

ADDITIONAL INFORMATION

Japan

Oral Session & EU Project & Exhibitor 29/11/2024 -Room A

Road Vehicles IV

14:00
15m

Paper ID 162 - Integrated NMPC-Based Control for in-wheel-motored Rear-wheel drive Electric Vehicles

Khan Muhammad Umer, Aydemir Ali Bhadir, Nobahar Amir, Ertan Bulent, Arikan Kukluk

ADDITIONAL INFORMATION

Turkey

14:15
15m

Paper ID 84- Automation test method and HILS environment configuration for Hydrogen storage system Management Unit verification

Kim Jaejeong, Lee Jungin, Hong Jeongmin

ADDITIONAL INFORMATION

South Korea

14:30
15m

Paper ID 9 - Influence of Current Sensor Faults on the Range of Full Electric Vehicles with PMSM-based Powertrain

Di Noia Luigi Pio, Attaianesi Ciro, D'Arpino Matilde, Di Monaco Mauro

ADDITIONAL INFORMATION

Italy

14:45
15m

Paper ID 45 - Design and Method for an Experimental Setup to evaluate the Heat Transfer in a Watercooled Eddy Current Brake

Köhler Christoph, Holtmann Christoph, Rinderknecht Frank

ADDITIONAL INFORMATION

Germany

15:00
15m

Paper ID 171 - Extended Analytic Selectivity Analysis of a Vehicular Electronic Fuse's Thermal Model-Based Wire Protection Algorithm

Mayer Christoph, Baumann Martin, Herzog Hans-Georg

ADDITIONAL INFORMATION

Germany

15:15
15m

Paper ID 179 - Regenerative braking capabilities in e-bike vehicles: comparison between two drive architectures

Minervini Marcello, Giangrande Paolo, Corti Fabio, Malighetti Paolo, Mantione Lorenzo

ADDITIONAL INFORMATION

Italy

Road Vehicles V

14:00
15m **Paper ID 232 - Rule-Based Strategy for Optimal Energy Management in Battery-Supercapacitor Hybrid Electric Vehicles**

Noui Meryem, Achour Yahia, Lashab Abderezak, Benidir Mohamed

ADDITIONAL INFORMATION

Algeria

14:15
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**

POPESCU Liviu, PREDESCU Dragos, BOSTAN Valeriu, GRIVA Giovanni

ADDITIONAL INFORMATION

Romania

14:30
15m **Paper ID 29 - Optimization of Sensor Setup and Filter Frequency for End-of-Line Partial Discharge Testing of Electrical Machines**

Rauscher Andreas, Stenzel Peer, Endisch Christian

ADDITIONAL INFORMATION

Germany

14:45
15m **Paper ID 109 - Systematic Approach to Design, Modeling and Characterization of Externally Excited Synchronous Machines for Traction Applications**

Henke Markus, Sharaf Abdullah

ADDITIONAL INFORMATION

Germany

15:00
15m **Paper ID 65 - Implementation and Preliminary Testing of 26 kW Induction Machine in an Electric Traction System**

VELAZQUEZ-ELIZONDO PEDRO-ENRIQUE, Guerra-Elguera Anahi, GONZALEZZ-RAMIREZ MIGUEL-ANGEL, ARAUJO-VARGAS ISMAEL, CANO-PULIDO KEVIN, MONDRAGON-ESCAMILLA NANCY

ADDITIONAL INFORMATION

Mexico

Oral Session & EU Project & Exhibitor 29/11/2024 -Room B

14:00
1h 45m **EU Project - HYPOBATT**

General Assembly Meeting

Oral Session & EU Project & Exhibitor 29/11/2024 -Outdoor

EV Exhibitor

14:00
1h 45m **Audi E-tron Q4, Audi E-tron Q6, Nissan Arya**

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 29/11/2024

15:45
30m **Coffee Break**

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb1 - 1st Floor

Oral Session & EU Project & Exhibitor 27/11/2024 -Room Magna

BATTERY CHARGING INFRASTRUCTURES

16:15
15m **Paper ID 167- A mixed-integer charging schedule for electric vehicles with request-dependent pricing**

Ghavami Mahsa, Liuzza Davide, Mostacciuolo Elisa, Iannelli Luigi, Vasca Francesco

ADDITIONAL INFORMATION

Italy

16:30
15m **Paper ID 123 - Stochastic Mobility Integration into Residential Energy Hubs**

Slaifstein Dario, Menendez Agudin Alvaro, Ram Chandra Mouli Gautham, Ramirez-Elizondo Laura, Bauer Pavol

ADDITIONAL INFORMATION

Argentina

16:45
15m **Paper ID 208- Extending Feasible Load-Independent Voltage Gain Range in Wireless Power Transfer Links**

Kuperman Alon, Vulfovich Andrey, Kolesnik Sergei, Yuhimenko Vladimir, Sitbon Moshe, Mandrioli Riccardo,

ADDITIONAL INFORMATION

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**

Liu Dong, Mattsson Aleks, Korhonen Juhamatti, Aarniovuori Lassi, Järvisalo Heikki, Lauttamus Panu, Silventoinen Pertti

ADDITIONAL INFORMATION

Finland

17:15
15m **Paper ID 152-Electric Road Systems for Electric Vehicle Long-Distance Travel: A Multi-Agent Simulation Approach**

Pourroshanfekr Arabani Hamoun, Ingelström Mattias, J. Márquez-Fernández Francisco, Alaküla Mats

ADDITIONAL INFORMATION

Sweeden

17:30
15m **Paper ID 49-Dispatchable battery swapping system with centralized charging and renewable energy generation**

Wallander Edvin, J. M árquez-Fernández Francisco

ADDITIONAL INFORMATION

Sweeden

Oral Session & EU Project & Exhibitor 27/11/2024 -Room A

Energy Storage I

16:15
15m **Paper ID 61 - Component sizing of single-motor heavy-duty powertrainsAn experimental- and simulation-based performance evaluation of a commercial high-energy cell - the path towards electric aviation?**

Alexander Fill

ADDITIONAL INFORMATION

Germany

16:30
15m **Paper ID 176 - An Empirical Model for State of Charge Estimation Based on Electrochemical Impedance Spectroscopy**

Ibrahim Khaled, Sabathiel Silvester, Farooq Farhan, Hofer Günter, Bergmann Alexander, Heer Rudolf

ADDITIONAL INFORMATION

Austria

16:45
15m **Paper ID 229 - Evaluation of Lithium-ion Cell Characterization Procedures and Model Calibration Issues**

Porpora Francesco, Martino Giovanni, Di Monaco Mauro, Tomasso Giuseppe

ADDITIONAL INFORMATION

Italy

17:00
15m **Paper ID 6 - Computational range maximization under current constraints for heavy-duty electric vehicles**

Immonen Eero

ADDITIONAL INFORMATION

Finland

17:15
15m **Paprr ID 111- Online Broadband Electrochemical Impedance Spectroscopy within Direct Power Control of a Neutral Point Clamped Inverter**

LIU KAI-PING, Orfanoudakis Georgios, Cruden Andrew, Sharkh Suleiman M.

ADDITIONAL INFORMATION

UK

17:30
15m **Paper ID 166 - Electric power prediction of 2D FE magnetic spring energy harvester based on coil using support vector machines**

Lo Sciuto Grazia, Bijak Joanna, Kowalik Zygmunt, Trawinski Tomasz, Capizzi Giacomo, Viola Fabio

ADDITIONAL INFORMATION

Poland

17:45
15m **Paper ID 123 - Stochastic Mobility Integration into Residential Energy Hubs**

Slaifstein Dario, Menendez Agudin Alvaro, Ram Chandra Mouli Gautham, Ramirez-Elizondo Laura, Bauer Pavol

ADDITIONAL INFORMATION

Argentina

Oral Session & EU Project & Exhibitor 27/11/2024 -Room C

Energy Storage II

16:15
15m

Paper ID 13 - Power Converter Modulation for Battery SOC

Muktar Nuradin, Gadoue Shady, Mehran Kamyar

ADDITIONAL INFORMATION

UK

16:30
15m

Paper ID 189 - Improved Charging Technique for Reducing the Charging Time in Nickel Manganese Cobalt type Lithium-ion Batteries

Nannapaneni Sai Vinay Kishore, Vanjari Seshadri Sravan Kumar

ADDITIONAL INFORMATION

India

16:45
15m

Paper ID 28 - State-of-Charge, State-of-Health and State-of-Power Estimation for Traction Batteries

Sabatino Simona, Calderaro Vito, Galdi Vincenzo, Graber Giuseppe

ADDITIONAL INFORMATION

Italy

17:00
15m

Paper ID 126 - Short-circuit DC Current Estimation of Hybrid Energy Storage Systems

Silvestro Federico, D'Agostino Fabio, Sivori Fabrizio

ADDITIONAL INFORMATION

Italy

17:15
15m

Paper ID 207 - State of Health Estimation of LiCoO₂ Cells based on Impulse Response and ARMAX Identification

Piegari Luigi, Barcellona Simone, Ribera Mattia, Fedele Emanuele, Codecasa Lorenzo, Iannuzzi Diego

ADDITIONAL INFORMATION

Italy

17:30
15m

Paper ID 230 - Accurate Electro-Thermal Modeling for an Half-bridge Converter based on Parallel-connected SiC Devices

Porpora Francesco, Marciano Daniele, Di Monaco Mauro, Nardi Vito, Tomasso Giuseppe

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 27/11/2024 -Room B

16:15
2h 15m

EU Project - HYPOBATT

General Assembly Meeting

Oral Session & EU Project & Exhibitor 27/11/2024 -Outdoor

EV Exhibitor

16:15
2h 15m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 27/11/2024

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

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
08:00 30m	Registration		Via Partenope, 36, 80121 NAPLES Secretary Desk- Ground Floor
KeyNote Session			
08:30 40m	Towards Carbon-Neutral Aviation Through Electrification Todd Spierling -Collins Aerospace		Via Partenope, 36, 80121 NAPLES 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 Calin</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 NAPLES
10:40			
10:40		Coffee Break	Via Partenope, 36, 80121 NAPLES
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	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	Cina
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	Netherdland
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			
20m	Room C		
The ports interoperability to serve the green shipping policy via electrification			
11:10 20m		Daniele Bosich University of Trieste	Italy
11:30			
1h 35m	Outdoor		
EV Exhibitor			
11:10 1h 35m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPLES
12:45			
12:45 1h 15m		Lunch	Via Partenope, 36, 80121 NAPLES Room Refreshment Rb1 - 1st Floor

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
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 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
15:00 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
15:15 15m		Paper ID 17 - Smooth Pole Change Method for Multiphase Induction Motor Drive System <i>Kobayashi Momoka</i> , Doki Shinji, Kato Hiroataka, Ito Jun-ichi, Kobayashi Masashi	Japan
15:30			
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 15m	Room C		
Special Session on Power Sources and Drivers 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	Cina

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
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 PXle <i>Ioana-Cornelia Gros</i> , Lucian-Nicolae Pintilie, Petre-Dorel Teodosescu, Horia-Cornel Hedesiu, Vasile-Mihai Suci, 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			
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			
14:00 1h 30m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPLES
15:30			
15:30 30m		Coffee break	Via Partenope, 36, 80121 NAPLES Room Refreshment Rb1 - 1st Floor
16:00 2h 00m		Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024	
2h 00m		Room A	
Decarbonization in the railway sector			
16:00 20m		Laurent FRECHEDE INTERNATIONAL UNION OF RAILWAYS	France
16:20 20m		Masahiro Sawayanagi EAST JAPAN RAILWAY- Deputy Director of Paris	france
16:40 20m		Guido Guidi Buffarini <i>Head of Technology Design Department-Italferr</i>	Italy
17:00 20m		Dario Romano <i>Design Engineering Department, Napoli Branch Office, Hitachi Rail S.p.A</i>	Italy
17:20 20m		Bodgan Vulturescu <i>Senior Project Manager at SNCF</i>	France
17:40 20m		Discussion & Conclusion	

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
18:00			
1h 40m	Room B		
Technological and Digital Transformation for Smart Mobility Development			
16:00 20m	Eng. Enrico Landolfi <i>Ph.D., Innovation Manager at Netcom Engineering S.p.A. and Chief Technical Officer at Innoviability S.r.l.</i>		Italy
16:20 20m	Eng. Alfredo Troiano <i>Ph.D., Chief Executive Officer at Quantumnet S.r.l.</i>		Italy
16:40 20m	Eng. Antonello Caraceni <i>Business Development EMEA, Netcom Engineering S.p.A.</i>		Italy
17:00 20m	Dr. Ugo Papagni <i>Sales Director at Bloomfleet S.p.A</i>		Italy
17:20 20m	Dr. Stefano Carminati <i>Vice President of Strategy at Deep Design Systems S.r.l.</i>		Italy
17:40			
1h 00m	Room C		
E-Motor Sport (TBD)			
16:00 20m	Giuseppe Tomasso University of Studi di Cassino e del Lazio Meridionale		Italy
16:20 20m	Michele Cecchini Head of Motorsport at Enel X		Italy
16:40 20m	Mario Bonifacio Technical Delegate FIA, Commissione ENECC		Italy
17:00			
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			
1h 58m	Room A1		
Poster Session			
16:00 4m	Paper ID 227 - Experimental identification of the Inrush Safety Regions in single-phase power transformers Balato Marco , Di Pasquale Antonio, Clemente Carmine Stefano, Liccardo Annalisa, Pagano Mario, Petarca Carlo, Visone Ciro		Italy
16:04 4m	Paper ID 169 - Research on Parallel Control Method for More Electric Aircraft High Voltage DC Electric Power System Considering Line Impedance Wang Yonggan , Yang Shanshui, Wang Li		China
16:08 4m	Paper ID 95 - Two-Stage Current Limiting Control Strategy For DC Solid-State Power Controller Wang Li , Huang Mingqiang, He Yongsheng, Yang Shanshui, Li Xing		China

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
16:12 4m		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
16:16 4m		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
16:20 4m		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
16:24 4m		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
16:28 4m		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
16:32 4m		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
16:36 4m		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
16:40 4m		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
16:44 4m		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
16:48 4m		Paper ID 25 - A Novel Isolated Connector for Bidirectional Direct V2V Charging Using Onboard Chargers Chong Benjamin, Zhou Renwentai	UK
16:52 4m		Paper ID 120 - Dynamic Wireless Power Transfer Optimization Using Adaptative Termination in Center-Fed Resonant Array <i>Dinis Joao</i> , Alberto José, Marques Cardoso Antonio J.	Portugal
16:56 4m		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
17:00 4m		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
17:04 4m		Paper ID 12 - The present status of the extremely high-power charging systems <i>Suojansalo Rasmus</i> , Aarniovuori Lassi, Korhonen Juhamatti, Peltoniemi Pasi	Finland
17:08 4m		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
17:12 4m		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
17:16 4m		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
17:20 4m		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

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
17:24 4m		Paper ID 43 - Maximizing the energy-saving potential of declutchable BEV powertrains via Eco-driving Xu Yu , Lokur Prashant, Klacar Simon, George Shino, Andersson Andreas, Sedarsky David, Murgovski Nikolce	Sweeden
17:28 4m		Paper ID 27 - Reverse Engineering-Based Modeling of an EV Motor Drive for Digital Twin Development Ibrahim Mahmoud , Rassólkin Anton, Rjabtšikov Viktor	Estonia
17:32 4m		Paper ID 46 - Extraction of Ferrite Material Properties and Application to Simulation-Based Common-Mode Filter Design Konrad Werner , Hackl Herbert, Stoiber Martin	Slovenia
17:36 4m		Paper ID 73 - Design-Method of a High Power Eddy Current Brake as a Retarder for electric Trucks Holtmann Christoph , Köhler Christoph, Weber Christian, Möckel Andreas	Germany
17:40 4m		Paper ID 151 - On Control of the Auxiliary Current Space Vector of Dual Three-Phase Permanent Magnet Motors Sala Giacomo , Mancini Marianna, Antonino Cagliari Gabriele, Femia Antonio, Vancini Luca, Rizzoli Gabriele, Nuzzo Stefano	Italy
17:44 4m		Paper ID 148 - Exploration of Partial Power Converter Topology for Fuel Cell Multi-Stack Systems in Heavy-Duty Applications SIAD Ines , BATTISTON Alexandre, LEROY Thomas, MARTIN Jean-Philippe, PIERFEDERICI Serge	France
17:48 10m		Paper ID 11 - Performance comparison of inductive charging systems for electric buses Di Noia Luigi Pio , Attaianese Ciro, Del Pizzo Andrea	Italy
17:58			
2h 00m		Outdoor	
EV Exhibitor			
16:00 2h 00m		Audi E-tron Q4, Audi E-tron Q6, Nissan Arya	Outdoor Via Partenope, 36, 80121 NAPLE S
18:00			
↓1h 00m			
19:00 3h 00m		GALA DINNER - D'Angelo	Aniello Falcone Street
22:00			

TOTAL LENGTH: 14h 00m

ESARS-ITEC 2024 - Thursday 28/11/2024 - block details

08:00
30m

Registration

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Secretary Desk- Ground Floor

KeyNote Session

08:30
40m

Towards Carbon-Neutral Aviation Through Electrification

Todd Spierling -Collins Aerospace

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Magna - 1st Floor

Oral Session & EU Project & Exhibitor 28/11/2024 -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

AIMAD CHEGRA, FAWZIA AMOKRANE, NADA ZOUZOU, Smail Ziani, Tony Letrouve, Herve Caron

ADDITIONAL INFORMATION

France

09:25
15m

Paper ID 23 - Railway rolling stocks' long parking strategies for energy saving

ALONSO Luis-M, CHAMARET André-Pilippe, FRUGIER Didier, LE FALHER Marie, ECLERCY Daniel, HENRY Patrick

ADDITIONAL INFORMATION

France

09:40
15m

Paper ID 177- Energy management solution of the future dual-mode electric train

AMOKRANE Fawzia, Elabachir Mohammed Ilyas, Depature Lançon Clément, CRISPIANI Danilo, PETITET Gilles, ZOUZOU Nada, ZIANI Smail

ADDITIONAL INFORMATION

France

09:55
15m

Paper ID 130- A reversible substation for MVDC railway electrification system

Bimmel Luc, Ladoux Philippe, Da Silveira Brito Erick Matheus

ADDITIONAL INFORMATION

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

Di Pasquale Antonio, Pagano Mario, Guidi Buffarini Guido, Carones Nicola, Laurini Marco, Rullo Emanuele

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 28/11/2024 -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

Brenner Lucas, Alban Daniel, Gerling Dieter

ADDITIONAL INFORMATION

Germany

09:25
15m

Paper ID 192 - Effects on airport operations from a new regional electric flight network in Northern Scandinavia

Lindberg Martin, Leijon Jennifer

ADDITIONAL INFORMATION

Sweeden

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

ADDITIONAL INFORMATION

Italy

09:55
15m

Paper ID 52 - Review of failure analysis methodologies and procedures applicable to complex electronic systems

Robles Marcos, Barrado Andrés, Fernández Arturo, Oliver Jesús, Mahillo Raúl, Lázaro Antonio

ADDITIONAL INFORMATION

Spain

10:10
15m

Paper ID 161 - Harmonic Cancellation for Dual-Generator Power Systems in More-Electric Aircraft: A Neural Network Approach

Gao Yuan, Huang Zhen, Xiao Xuechun, Ji Bing

ADDITIONAL INFORMATION

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

Heise Frederik, Kazula Stefan

ADDITIONAL INFORMATION

Germany

Oral Session & EU Project & Exhibitor 28/11/2024 -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

Basile Giacomo, Lui Dario Giuseppe, Napoletano Elena, Petrillo Alberto, Santini Stefania

ADDITIONAL INFORMATION

Italy

09:25
15m

Paper ID 223 - Comparative Energy Assessment of Automated Electric Vehicles equipped with ACC Systems

Coppola Angelo, Di Costanzo Luca, Marchetta Andre

ADDITIONAL INFORMATION

Italy

09:40
15m

Paper ID 224- Preliminary Methodologies for Selecting Diesel Railways to Be Converted to Hydrogen

D'Acierno Luca, De Matteis Luca, Stefanelli Rosario

ADDITIONAL INFORMATION

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

Gallo Mariano

ADDITIONAL INFORMATION

Italy

10:10
15m

Paper ID 117 - Evaluation of Direct Torque Predictive Control for SRM with Reduced Computation Resources

Gholaminejad Azadeh, Dhale Sumedh, Nahid-Mobarakeh Babak

ADDITIONAL INFORMATION

Canada

10:25
15m

Paper ID 87 - Reliability-Oriented Design of Electrified Aircraft Propulsion by Means of Hierarchical Reliability Models

Kammermann Jörg, Sikander Wajeeha, Bolvashenkov Igor, Hans-Georg Herzog

ADDITIONAL INFORMATION

Germany

Oral Session & EU Project & Exhibitor 28/11/2024 -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

Erol Erdeniz, Çakan Batuhan, Çetin Nazlı Nur, Bayrakçı Veysel, Güzel Samed, Semiz Ferit, Eyüboğlu Bünyamin

ADDITIONAL INFORMATION

Turkey

09:25
15m **Paper ID 50 - Lessons learnt from high impact R&D projects from ZEWT and other sectors with ESS**

Meneses Pilar, Aizpurua Izaskun, Batalla Jokin

ADDITIONAL INFORMATION

Spain

09:40
15m **Paper ID 206 - A Multi-Objective Co-Design Optimization Framework for Microgrid Architecture in Marine Application**

Saeed Kazemian, Geury Thomas, Hegazy Omar

ADDITIONAL INFORMATION

Belgium

09:55
15m **Paper ID 64 - Sizing a heterogeneous battery system for an offshore vessel: methodology and application**

Vincent Philippoteau, Julien Dauchy, Solène Goy, Guénaél Le Solliec

ADDITIONAL INFORMATION

France

10:10
15m **Paper ID 147 - Hybrid Ship Fuel Consumption Prediction Through Operational Performance Simulation**

Husar Calin, Irimia Cristi, Szabo Robert-Matei, Grovu Mihail, Touat Amine, Petiteau Mathieu

ADDITIONAL INFORMATION

Romania

10:25
15m **Paper ID 144 - Integrated Digital Platform for Marine Energy Management**

Husar Calin, Baicoianu Alexandra, Pescaru Dan, Sasu Daniela, Tran Dai-Duong, Larsen Lars Petter

ADDITIONAL INFORMATION

Romania

Oral Session & EU Project & Exhibitor 28/11/2024 -Outdoor

EV Exhibitor

09:10
1h 30m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 28/11/2024

10:40
30m

Coffee Break

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb1 - 1st Floor

Oral Session & EU Project & Exhibitor 28/11/2024 -Room Magna

Special Session on Innovative techniques and measures for improving rail transit system efficiency

11:10
15m

Paper ID 215- Optimizing Regenerative Braking Energy with Bidirectional Active Traction Substations: Multi-Train Simulation and Transient Modeling

Jafari Kaleybar Hamed, Brenna Morris, Pugi Luca, Kociu Aljon

ADDITIONAL INFORMATION

Italy

11:25
15m

Paper ID 228- Energy evaluation of urban railroad systems

Lutemberger Giovanni, Ceraolo Massimo, Kociu Aljon, Quilici Francesco Giuseppe, Ruvio Alessandro

ADDITIONAL INFORMATION

Italy

11:40
15m

Paper ID 133 - Infrastructure and battery capacity impact on BEMU's battery lifetime

Maxime Juston, Clement Depature, Andre-Philippe Chamaret, Bogdan Vulturescu

ADDITIONAL INFORMATION

France

11:55
15m

Paper ID 82 - The Static Phase Converter. A Solution to Reinforce the Power Supply of 25 kV/50Hz Railway Lines

Sacco Paul, Ladoux Philippe, Sanchez Sébastien, Sonier Benoit, Hassan Mahmoud

ADDITIONAL INFORMATION

France

12:10
15m

Paper ID 37 - Two-Stage Energy Management of Urban-Rail-Transit-based Micro Grid Integrated with EV

Tian Zhongbei, Dong Hongzhi, Spencer Joseph W.

ADDITIONAL INFORMATION

UK

Oral Session & EU Project & Exhibitor 28/11/2024 -Room A

Special Session on Electric Machines and Power Converters Models for Digital Twins in Air Transportation Systems

11:10
15m

Paper ID 72 - Development of 1 MW Hybrid Electric Propulsion Drive System

Sawata Tadashi, Minshull Stephen

ADDITIONAL INFORMATION

UK

11:25
15m **Paper ID 116 - Optimal Voltage Selection for Electrical Power Systems on More Electric Aircraft**

Wang Xin, Atkin Jason, Yeoh Seang Shen, Bozhko Serhiy

ADDITIONAL INFORMATION

UK

11:40
15m **Paper ID 121 - Simulation framework of tethered fixed-wing Unmanned Aerial Vehicle**

Yan Changjin, Zhang Shu, Zhang Donghui, Chen Zhenhai, Zhang Taihua

ADDITIONAL INFORMATION

Cina

11:55
15m **Paper ID 47 - Reliability Assessment of Power Modules across Mission Phases in Electric Aircraft Propulsion**

Kugener Jeff, Kazula Stefan

ADDITIONAL INFORMATION

Germany

12:10
15m **Paper ID 205 - Map-based Simulation Model for Energetic Assessment of Electric Propulsion Systems**

Perilli Lorenzo, Graffeo Federica, Vaschetto Silvio, Tenconi Alberto

ADDITIONAL INFORMATION

Italy

12:25
15m **Paper ID 160 - Hardware-In-the-Loop Modeling and Simulation of the Fin Control Subsystem with DSP**

Sotero Matheus, Figueiredo de A. Campos Bernardo, Sol Salgado Silva Ícaro, Mello Gabriel, B. Rolim Luís Guilherme

ADDITIONAL INFORMATION

Brasil

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**

Liu Dong, Ahonen Kasimir, Vilko Jyri, Aarniovuori Lassi

ADDITIONAL INFORMATION

Finland

11:25
15m **Paper ID 128 - Vehicle to Grid from the Electric Vehicle point-of-view to reduce peak demand and system cost**

Menendez Agudin Alvaro, Chandra Mouli Gutham Ram, Bauer Pavol

ADDITIONAL INFORMATION

Netherdland

11:40
15m **Paper ID 104 - Design Assessment of GaN FET-Based Inverter for Low-Voltage Braking System**

Musumeci Salvatore, Barba Vincenzo, Mandrile Fabio, Carbone Fabio, Abate Francesco

ADDITIONAL INFORMATION

Italy

11:55
15m **Paper ID 67 - Optimal Current Control of Switched Reluctance Motors Over the Entire Operating Range**

Niazi Yasaman, Nahid-Mobarakeh Babak

ADDITIONAL INFORMATION

Canada

12:10
15m **Paper ID 93 - Systematic error correction of SUMO traffic simulator's HBEFA vehicle emission model**

Varga Balazs, Lulic Zoran, Tettamanti Tamas

ADDITIONAL INFORMATION

Hungary

12:25
15m **Paper ID 58 - Neural network estimators of SoC trained with model-based dataset in BMS for ground electric vehicles**

Capasso Clemente, Chianese Giovanni, Iannucci Luigi, Veneri Ottorino

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 28/11/2024 -Room C

The ports interoperability to serve the green shipping policy via electrification

11:10
20m **Daniele Bosich**

University of Trieste

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 28/11/2024 -Outdoor

EV Exhibitor

11:10
1h 35m **Audi E-tron Q4, Audi E-tron Q6, Nissan Arya**

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 28/11/2024

12:45

1h 15m

Lunch

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb1 - 1st Floor

Oral Session & EU Project & Exhibitor 28/11/2024 -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

Andrada Pere, Blanqué Balduí, Monjo Lluís, Kobeaga Pol, Bravo Joel

ADDITIONAL INFORMATION

Spain

14:15

15m

Paper ID 39 - Frequency-Domain Sensitivity Analysis Method for Mitigation of Automotive Power Supply Disturbances

Gerten Michael, Frei Stephan

ADDITIONAL INFORMATION

Germany

14:30

15m

Paper ID 106 - Centralized Diagnosis of On-Board Power Supply Network Faults with LSTM-Networks

Rübartsch Marvin, Schwierz Martin, Wang Qingping, Frei Stephan

ADDITIONAL INFORMATION

Germany

14:45
15m

Pap ID 92 - Loss characteristics of PMSM drive system for inverter switching

Kokago Takumi, Kondo Keiichiro, Aiso Kohei, Aoki Yasuaki, Imai Koji, Oishi Ryohei

ADDITIONAL INFORMATION

Japan

15:00
15m

Paper ID 79 -Characteristics of Battery-Internal-Heating Method involving dq-axis Current Pulsation in Permanent Magnet Synchronous Motors during Electric Vehicle Operation

Hasegawa Ryuhei, Kondo Keiichiro, Funayama Chikako, Imura Akihiro

ADDITIONAL INFORMATION

Japan

15:15
15m

Pap ID 17 - Smooth Pole Change Method for Multiphase Induction Motor Drive System

Kobayashi Momoka, Doki Shinji, Kato Hiroataka, Ito Jun-ichi, Kobayashi Masashi

ADDITIONAL INFORMATION

Japan

Oral Session & EU Project & Exhibitor 28/11/2024 -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

SAPAWAT JITESH KUMAR, Miyatake Masafumi

ADDITIONAL INFORMATION

Japan

14:15
15m

Paper ID 183 - Real Time Energy Supervision for Battery Storage System in a Hybrid DC Railway Smart Grid

Shmaysani Mhamad, Almaksour Khaled, Caron Hervé, Robyns Benoit, Saudemont Christophe

ADDITIONAL INFORMATION

France

14:30
15m

Paper ID 22 - Estimating Cost Benefit of Supply-Demand Adjustment Utilizing Railway Onboard Batteries Based on their Deterioration Test

Watanabe Aruto, Taguchi Yoshiaki

ADDITIONAL INFORMATION

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

Ohata Ryosuke, Kondo Keiichiro, Kobayashi Hiroyasu, Nishi Kentaro, Suzuki Takashi, Yoshinaga Takashi, Takahashi Ryo

ADDITIONAL INFORMATION

Japan

15:00
15m

Paper ID 217 - Multi-objective design of a bidirectional DC-DC converter for battery-powered locomotive

Simone Palazzo, Antonio Fusaro, Emanuele Martano, Giovanni Canale Parola, Enzo de Santis, Annunziata Sanseverino, Francesco Velardi, Giovanni Busatto

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 28/11/2024 -Room C

Special Session on Power Sources and Drivers for Electric Vehicles

14:00
15m

Paper ID 107 - Gradient-Based Predictive Pulse Pattern Control for Permanent Magnet Synchronous Motor Drives

Benevieri Alessandro, Karamanakos Petros, Formentini Andrea, Marchesoni Mario

ADDITIONAL INFORMATION

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

FANG Zhifa, DOKI Shinji

ADDITIONAL INFORMATION

Cina

14:30
15m

Paper ID 24 - Multilevel level inverter for EV charging via hybrid storage unit (Fuel Cell, Battery, Ultracapacitor)

Ioana-Cornelia Gros, Daniel Fodorean

ADDITIONAL INFORMATION

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

Ioana-Cornelia Gros, Lucian-Nicolae Pintilie, Petre-Dorel Teodosescu, Horia-Cornel Hedesiu, Vasile-Mihai Suciu, Adrian-Mihai Iuoras

ADDITIONAL INFORMATION

Romania

15:00
15m

Paper ID 185 - Integration of Electric Vehicles Charging Infrastructure with Renewable Energy Sources in Urban Environments : Modeling and Optimization Perspectives

Rusinaru Denisa, Mircea Paul Mihai, Buzatu Cosmin Gabriel, Manescu Leonardo Geo, Bratu Cristian

ADDITIONAL INFORMATION

Romania

Oral Session & EU Project & Exhibitor 28/11/2024 -Room Magna

14:00
1h 30m

Clustering Activity EU Project V-Access, AENEA, Nemoship, Poseidon

General Assembly Meeting

ADDITIONAL INFORMATION

Room Magna - 1st Floor

Oral Session & EU Project & Exhibitor 28/11/2024 -Outdoor

EV Exhibitor

14:00
1h 30m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 28/11/2024

15:30
30m

Coffee break

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment Rb1 - 1st Floor

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Room A

Decarbonization in the railway sector

16:00
20m

Laurent FRECHEDE

INTERNATIONAL UNION OF RAILWAYS

ADDITIONAL INFORMATION

France

16:20
20m

Masahiro Sawayanagi

EAST JAPAN RAILWAY- Deputy Director of Paris

ADDITIONAL INFORMATION

france

16:40
20m

Guido Guidi Buffarini

Head of Technology Design Department-Italferr

ADDITIONAL INFORMATION

Italy

17:00
20m

Dario Romano

Design Engineering Department, Napoli Branch Office, Hitachi Rail S.p.A

ADDITIONAL INFORMATION

Italy

17:20
20m

Bodgan Vulturescu

Senior Project Manager at SNCF

ADDITIONAL INFORMATION

France

17:40
20m

Discussion & Conclusion

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Room B

Technological and Digital Transformation for Smart Mobility Development

16:00
20m

Eng. Enrico Landolfi

Ph.D., Innovation Manager at Netcom Engineering S.p.A. and Chief Technical Officer at Innoviability S.r.l.

ADDITIONAL INFORMATION

Italy

16:20
20m

Eng. Alfredo Troiano

Ph.D., Chief Executive Officer at Quantumnet S.r.l.

ADDITIONAL INFORMATION

Italy

16:40
20m

Eng. Antonello Caraceni

Business Development EMEA, Netcom Engineering S.p.A.

ADDITIONAL INFORMATION

Italy

17:00
20m

Dr. Ugo Papagni

Sales Director at Bloomfleet S.p.A

ADDITIONAL INFORMATION

Italy

17:20
20m

Dr. Stefano Carminati

Vice President of Strategy at Deep Design Systems S.r.l.

ADDITIONAL INFORMATION

Italy

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Room C

E-Motor Sport (TBD)

16:00
20m

Giuseppe Tomasso

University of Studi di Cassino e del Lazio Meridionale

ADDITIONAL INFORMATION

Italy

16:20
20m

Michele Cecchini

Head of Motorsport at Enel X

ADDITIONAL INFORMATION

Italy

16:40
20m

Mario Bonifacio

Technical Delegate FIA, Commissione ENECC

ADDITIONAL INFORMATION

Italy

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Room Magna

16:00
1h 30m

Clustering Activity EU Project V-Access, AENEA, Nemoship, Poseidon

General Assembly Meeting

ADDITIONAL INFORMATION

Room Magna - 1st Floor

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Room A1

Poster Session

16:00
4m **Paper ID 227 - Experimental identification of the Inrush Safety Regions in single-phase power transformers**

Balato Marco, Di Pasquale Antonio, Clemente Carmine Stefano, Liccardo Annalisa, Pagano Mario, Petrarca Carlo, Visone Ciro

ADDITIONAL INFORMATION

Italy

16:04
4m **Paper ID 169 - Research on Parallel Control Method for More Electric Aircraft High Voltage DC Electric Power System Considering Line Impedance**

Wang Yonggan, Yang Shanshui, Wang Li

ADDITIONAL INFORMATION

China

16:08
4m **Paper ID 95 - Two-Stage Current Limiting Control Strategy For DC Solid-State Power Controller**

Wang Li, Huang Mingqiang, He Yongsheng, Yang Shanshui, Li Xing

ADDITIONAL INFORMATION

China

16:12
4m

Paper ID 102- A Diagnosis Method for Open-Switch Faults in Open-Winding Sinusoidal Doubly Salient Electromagnetic Machine Drive System

Zhou Bo, Yin Yujie , Fang Wenjing, Xie Xie, Wang Huizhen

ADDITIONAL INFORMATION

China

16:16
4m

Paper ID 100- A Position Sensorless Startup Method for DSEM Based on Pulse Injection

Zhou Bo, Xie Xie, Fang Wenjing, Yin Yujie, Wang Huizhen

ADDITIONAL INFORMATION

China

16:20
4m

Paper ID 101 -Common Mode Voltage Suppression Strategy for Third-Harmonic Injection Two-Stage Matrix Converter

Zhou Bo, Shi Yaotian, Chang Qingyun, Lu Chengjia, Wang Huizhen, Meng Xiaoli

ADDITIONAL INFORMATION

China

16:24
4m

Paper ID 103 - Position Estimation for Sinusoidal Doubly Salient Electromagnetic Machine Considering Cross-Coupling Effect

Zhou Bo, Huang Yang, Yu Xiaodong, Huang Yurong, Wang Huizhen, Meng Xiaoli

ADDITIONAL INFORMATION

China

16:28
4m

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

Ali Salman, Boldea Ion, Tutelea Lucian, Popa Ana Adela, Marignetti Fabrizio

ADDITIONAL INFORMATION

Italy

16:32
4m **Paper ID 42 - A Novel Empiric Model-Based Classification Algorithm for Fault Detection in DC Railway Systems**

Lanzarotto Damiano, Wallart Francois, Leclere Loic

ADDITIONAL INFORMATION

France

16:36
4m **Paper ID 7 - 150 kVA Compact modular three-level NPC Auxiliary converter for the Railways Application**

Rong Xiaoyun, Dou Zechun, Jain Prashant, Qi Yu, Liu Bin, Li Chengxi, Zhu Qingwei, Shen Chengjun

ADDITIONAL INFORMATION

UK

16:40
4m **Paper ID 36 -Configuration Research of the Multi-Mode Hybrid Electric Vehicles with Two Electric Machines**

zou yunge, Zhang yuxin, Yang Yalian

ADDITIONAL INFORMATION

China

16:44
4m **Paper ID 5 - Integrated Framework for Initial Position Estimation and Self-Commissioning of SRM Using Voltage Signals**

Gholaminejad Azadeh, Nahid-Mobarakeh Babak

ADDITIONAL INFORMATION

Canada

16:48
4m **Paper ID 25 - A Novel Isolated Connector for Bidirectional Direct V2V Charging Using Onboard Chargers**

Chong Benjamin, Zhou Renwentai

ADDITIONAL INFORMATION

UK

16:52
4m

Paper ID 120 - Dynamic Wireless Power Transfer Optimization Using Adaptive Termination in Center-Fed Resonant Array

Dinis Joao, Alberto José, Marques Cardoso Antonio J.

ADDITIONAL INFORMATION

Portugal

16:56
4m

Paper ID 181 - An LLC-DAB Hybrid Converter with High Input-Output Voltage Ratio Based on an Integrated Matrix Transformer

Yang Xiaodong, Xiao Lan, Wu Qunfang, Zhao Wenjie, Chen Wenlong

ADDITIONAL INFORMATION

China

17:00
4m

Paper ID 53 - A quantitative approach to measure the resilience of freight transport utilizing battery-electric trucks

Mauch Lars, Otteny Felix, Kilic Cem

ADDITIONAL INFORMATION

Germany

17:04
4m

Paper ID 12 - The present status of the extremely high-power charging systems

Suojansalo Rasmus, Aarniovuori Lassi, Korhonen Juhamatti, Peltoniemi Pasi

ADDITIONAL INFORMATION

Finland

17:08
4m

Paper ID 182 - An Improved Feature-Position-Based Sensorless Direct Torque Control Scheme for SRM Drives at Medium-High Speeds

Tian Chongyang, Nahid-Mobarakeh Babak

ADDITIONAL INFORMATION

Canada

17:12
4m **Paper ID 74 - A Methodology to Assess the Sustainability of Motors for Electric Vehicles**

Bhagat Prithvi, Jones Dr.Catherine, Miscandlon Dr.Jill

ADDITIONAL INFORMATION

UK

17:16
4m **Paper ID 69 - Modeling and Control of a Direct Current Ferry Shipboard Power System**

Boujoudar Younes, Micallef Alexander, APAP Maurice, Sciberras Edward, Rampen Peter

ADDITIONAL INFORMATION

Malta

17:20
4m **Paper ID 32 - Quasi-Square-Wave PWM Modulation for Modular Multilevel Converter in Variable Speed Motor Drives with Self Voltage Recovery**

Xia Peizhou, Zhang Xinyun, Finney Stephen

ADDITIONAL INFORMATION

UK

17:24
4m **Paper ID 43 - Maximizing the energy-saving potential of declutchable BEV powertrains via Eco-driving**

Xu Yu, Lokur Prashant, Klacar Simon, George Shino, Andersson Andreas, Sedarsky David, Murgovski Nikolce

ADDITIONAL INFORMATION

Sweeden

17:28
4m **Paper ID 27 - Reverse Engineering-Based Modeling of an EV Motor Drive for Digital Twin Development**

Ibrahim Mahmoud, Rassõlkin Anton, Rjabtšikov Viktor

ADDITIONAL INFORMATION

Estonia

17:32
4m **Paper ID 46 - Extraction of Ferrite Material Properties and Application to Simulation-Based Common-Mode Filter Design**

Konrad Werner, Hackl Herbert, Stoiber Martin

ADDITIONAL INFORMATION

Slovenia

17:36
4m **Paper ID 73 - Design-Method of a High Power Eddy Current Brake as a Retarder for electric Trucks**

Holtmann Christoph, Köhler Christoph, Weber Christian, Möckel Andreas

ADDITIONAL INFORMATION

Germany

17:40
4m **Paper ID 151 - On Control of the Auxiliary Current Space Vector of Dual Three-Phase Permanent Magnet Motors**

Sala Giacomo, Mancini Marianna, Antonino Cagliari Gabriele, Femia Antonio, Vancini Luca, Rizzoli Gabriele, Nuzzo Stefano

ADDITIONAL INFORMATION

Italy

17:44
4m **Paper ID 148 - Exploration of Partial Power Converter Topology for Fuel Cell Multi-Stack Systems in Heavy-Duty Applications**

SIAD Ines, BATTISTON Alexandre, LEROY Thomas, MARTIN Jean-Philippe, PIERFEDERICI Serge

ADDITIONAL INFORMATION

France

17:48
10m **Paper ID 11 - Performance comparison of inductive charging systems for electric buses**

Di Noia Luigi Pio, Attaianese Ciro, Del Pizzo Andrea

ADDITIONAL INFORMATION

Italy

Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024 -Outdoor

EV Exhibitor

16:00
2h 00m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Workshop Session & EU Project & Poster Session & Exhibitor 28/11/2024

19:00
3h 00m

GALA DINNER - D'Angelo

ADDITIONAL INFORMATION

Aniello Falcone Street

■ Registration
 ■ KeyNote Session
 ■ Ship
 ■ Special Session
 ■ EU project
 ■ Mobility
 ■ Exhibitor
 ■ break
 ■ 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	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 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
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 00m		Room C	
INFRASTRUCTURES FOR E - MOBILITY AND H- MOBILITY			
09:10 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
09:25 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
09:40 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
09:55 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	Sweedeen
10:10			
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
11:10 1h 50m		Oral Session & EU Project & Round Table & Exhibitor 29/11/2024	
1h 45m		Room Magna	
SHIPBOARD ELECTRICAL SYSTEMS II			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
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 168 - A Distributed Simulation of Electrical Machines on FPGAs Using Low Latency Communication Protocol <i>Mustafa Hadil</i> , Zenor John, Kredo Il Kurtis, Alavi Zahrasadat, Crosbie Roy	USA
12:10 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
12:25 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
12:40 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
12:55			
1h 15m	Room A		
Special Session on Digital Twin Technologies in Modern Transportation Systems			
11:10 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
11:25 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
11:40 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
11:55 15m		Paper ID 122 - Modular representation of Components to Enable Generative Engineering <i>Vepsäläinen Jari</i> , Malik Rohail, Ahmad Muhammad	Finland
12:10 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
12:25			
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

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
11:20 15m	Maurizio Maggiore	Formerly Policy Officer European Commission – Research and Innovation Department (RTD)	USA
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	?
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 15m	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 J., Ertan H. Bulent</i>	Turkey
14:45 15m		Paper ID 178 - Battery Modeling for Road Vehicles Application: a Comparative Study <i>Campagna Nicola, Bossi Giuseppe, Fedele Emanuele, Miceli Rosario, Damiano Alfonso, Rizzo Renato</i>	Italy
15:00 15m		Paper ID 86 - Kinetic Energy Recovery System for Electric Buses: A Method for Extending Mileage Range <i>Elgenedy Mohamed, Singh Dharminder, Coman Chris</i>	UK
15:15 15m		Paper ID 141 - Feature Identification and Extraction for Battery Aging Estimation in Aircraft Auxiliary Applications <i>Gauchia Lucia, Shekhar Shivanshu, Amaris Hortensia, Sargadui Jon</i>	Spain
15:30 15m		Paper ID 115 - Analytical Approach to Define the Stability Boundaries in Controlled DC Microgrids <i>Bosich Daniele, Tavagnutti Andrea Alessia, Sulligoi Giorgio</i>	Italy
15:45			

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
1h 00m	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 Sousso, 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			
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 30m	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
14:45 15m		Paper ID 210 - Integration of Free Piston Linear Generator and Battery Pack in Hybrid Vehicles <i>Mostacciolo Elisa</i> , Baccari Silvio, Beatrice Carlo, Capasso Clemente, Capuano Francesco, Continillo Gaetano, Iannelli Luigi, Liuzza Davide, Rubino Luigi, Saviano Raffaele, Vasca Francesco, Veneri Ottorino	Italy

TIME	ASSIGNED TO	TITLE AND DESCRIPTION	ADDITIONAL INFO
15:00 15m		Paper ID 115 - Comparative study of passive and active reconfigurable equalizer for lithium-ion cells <i>Rubino Luigi</i> , 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 <i>Scamardella Filippo</i> , Garibaldi Davide, Bianchi Fiammetta Rita, Altosole Marco, Balsamo Flavio, Bosio Barbara	Italy
15:30 15m		Paper ID 62 - Energy Efficiency Analysis of BESS Installed in Polar Exploration Vessel <i>Touat Amine</i>	France
15:45 15m		Paper ID 238 - Reinforcement Learning Based Energy Management System to Maximize Efficiency for the Hybrid Marine Propulsion System <i>Albakri Saeed</i> , Mehran Kamyar, Gadoue Shady	UK
16:00			
16:00 20m		Closing Session ESARS-ITEC 2024	Room Magna - 1st Floor
16:20			

TOTAL LENGTH: 8h 20m

ESARS-ITEC 2024 - Friday 29/11/2024 - block details

08:00
30m

Registration

ADDITIONAL INFORMATION

Secretary Desk- Ground Floor

Keynote Session

08:30
40m

Sailing into the future: The Role of Direct Current in Ship Electrification

Head of Research & Innovation at Fincantieri SI

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Magna - 1st Floor

Oral Session & EU Project & Exhibitor 29/11/2024 -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

Albakri Saeed, Mehran Kamyar, Gadoue Shady

ADDITIONAL INFORMATION

UK

09:25
15m **Paper ID 90 - PPL Integration Employing SMES System on Naval Vessel: Modeling and Co-simulation**

D'Agostino Fabio, Cepollini Pietro, Kaza Daniele, Roncagliolo Daniele, Silvestro Federico, Chiarelli Antonio

ADDITIONAL INFORMATION

Italy

09:40
15m **Paper ID 89 - Status and future trends of electrification-based solutions for efficiency-oriented ship retrofitting**

Di Piazza Maria Carmela, Pucci Marcello, Iafrati Alessandro

ADDITIONAL INFORMATION

Italy

09:55
15m **Paper ID 195 - Evaluation of a Dual MLC2 Converter for Electrified Ship Propulsion Application**

Dias Bellar Maria, Martins Diogo

ADDITIONAL INFORMATION

Brasil

10:10
15m **Paper ID 153 - Impact of Counting Methods & Objectives on Expected Battery Lifetime & Fuel Consumption**

Durgaprasad Sankarshan, W. van Keulen Lars, Polinder Henk, Coraddu Andrea

ADDITIONAL INFORMATION

Netherland

10:25
15m **Paper ID 80 - Optimal Energy Management of FC-Battery Shipboard Power System using Dynamic Programming**

Kopka Timon, Coraddu Andrea, Polinder Henk

ADDITIONAL INFORMATION

Netherdland

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

Ali Salman, Boldea Ion, Marignetti Fabrizio, Qadeer Neelam, Tutelea Lucian

ADDITIONAL INFORMATION

Italy

09:25
15m

Paper ID 63 - Sensorless Start-up Synchronization of Multi-3-Phase Segmented PMSM for Electrical Aircraft Propulsion Systems

Baum Lukas, Grumm Florian, Schulz Dettlef

ADDITIONAL INFORMATION

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

Ciprini Luca, Martin Adrian Daniel, Isfanuti Andy-Sorin, Tutelea Lucian Nicolae, Marignetti Fabrizio, Boldea Ion

ADDITIONAL INFORMATION

Italy

09:55
15m

Paper ID 164 - Techno-Economic Investigation of Power Systems for a Decarbonized Naval Sector

Nevoloso Claudio, Caruso Massimo, Schettino Giuseppe, Miceli Rosario, Passalacqua Matteo, Mantelli Luca, Traverso Alberto

ADDITIONAL INFORMATION

Italy

10:10
15m **Paper ID 76 - Decoupled Levitation and Propulsion Control of Single-Sided Linear Induction Motors**

Rametti Simone, Pierrejean Lucien, Hodder André, Paolone Mario

ADDITIONAL INFORMATION

Switzerland

10:25
15m **Paper ID 233- Multi-Phase Fault Tolerant MW Range Synchronous Machine Drives for Hybrid-Electric Aircraft**

Tenconi Alberto, Molina Matías Jiménez, Perilli Lorenzo, Crescimbin Fabio, Vita Leonardo, Tursini Marco, Credo Andrea, Fabri Giuseppe, Tani Angelo, Bellini Alberto, Cagliari Gabriele Antonino, Sala Giacomo

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Exhibitor 29/11/2024 -Room B

09:10
1h 30m **V-ACCESS**

General Assembly Meeting

ADDITIONAL INFORMATION

Room B - Ground Floor

Oral Session & EU Project & Exhibitor 29/11/2024 -Room C

INFRASTRUCTURES FOR E - MOBILITY AND H- MOBILITY

09:10
15m **Paper ID 88- Multiobjective System Sizing for Heavy-Duty Electric Vehicle Charging Stations**

Shams Ashkezari Leila, Ram Chandra Mouli Gautham, Yorke-Smith Neil, Bauer Pavol

ADDITIONAL INFORMATION

Netherland

09:25
15m **Paper ID 129 - Optimal Sizing of a Multi-Energy Port with Vehicles Charging Capabilities**

Silvestro Federico, Gallo Marco, Saviozzi Matteo, D'Agostino Fabio, Kaza Daniele

ADDITIONAL INFORMATION

Italy

09:40
15m **Paper ID 127 - Mobile EV Charging: Design, Optimization and Evaluation of Battery-Integrated Robots to Improve Electric Mobility**

Sulecik Arda Fikret, Agudin Alvaro Menendez, Bauer Pavol

ADDITIONAL INFORMATION

Netherland

09:55
15m **Paper ID 157 - Exploring the Potential Demand Side Flexibility of a Microgrid: A Case Study at a Multi-Functional Building in Uppsala, Sweden**

Tibaldi Martina, Wallberg Alexander, Martins Mattos Marina, Waters Rafael, Castellucci Valeria

ADDITIONAL INFORMATION

Sweeden

Oral Session & EU Project & Exhibitor 29/11/2024 -Outdoor

EV Exhibitor

09:10
1h 30m **Audi E-tron Q4, Audi E-tron Q6, Nissan Arya**

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Exhibitor 29/11/2024

10:40
30m

Coffee Break

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment - 1st Floor

Oral Session & EU Project & Round Table & Exhibitor 29/11/2024 -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

Latorre Alejandro, Batista Soeiro Thiago, Geertsma Rinze, Polinder Henk

ADDITIONAL INFORMATION

Netherdland

11:25
15m

Paper ID 139 - Optimizing Fuel Consumption of a Dual-Fuel Full-Electric Vessel Using Model Predictive Control

Löffler Charlotte, Geertsma Rinze, Polinder Henk, Coraddu Andrea

ADDITIONAL INFORMATION

Netherdland

11:40
15m

Paper ID 81 - Design of a Test Bench for 1.5kV Solid State Circuit Breaker for Transport Electrification

Meraj Mohammad, Weston Paul, Tricoli Pietro

ADDITIONAL INFORMATION

UK

11:55
15m **Paper ID 168 - A Distributed Simulation of Electrical Machines on FPGAs Using Low Latency Communication Protocol**

Mustafa Hadil, Zenor John, Kredo II Kurtis, Alavi Zahrasadat, Crosbie Roy

ADDITIONAL INFORMATION

USA

12:10
15m **Paper ID 214 - Electric Propulsion System with Hybrid Powertrain Equipped with Diesel/Gas Generators and Battery-Buffered AC Common Bus for LNG Ships**

Savrun Murat Mustafa, Sari Taha Bugra, Senler Orçun

ADDITIONAL INFORMATION

Turkey

12:25
15m **Paper ID 98 - Load Profile Estimation for Electric Power Load Analysis**

Silvestro Federico, D'Agostino Fabio, Kaza Daniele, Gallo Marco, Benevieri Fabio

ADDITIONAL INFORMATION

Italy

12:40
15m **Paper ID 146 - Refitting a cruise ship with more electric power & energy systems: a methodology to evaluate the impact on fuel efficiency**

Vicenzutti Andrea, Braidotti Luca, Utzeri Samuele, Bucci Vittorio, Sulligoi Giorgio

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Round Table & Exhibitor 29/11/2024 -Room A

Special Session on Digital Twin Technologies in Modern Transportation Systems

11:10
15m **Paper ID 158 - State-Space Modeling of Protection Circuits for Electronic Fuses in Vehicular Power Systems**

Baumann Martin, Shen Pengxin, Mayer Christoph, Eisenmann Bastian, Camacho Molina Samantha, Herzog Hans-Georg

ADDITIONAL INFORMATION

Germany

11:25
15m **Paper ID 142 - Cloud-Based Digital Twin for Optimized Multi-Megawatt Charging Control Strategies in Maritime Applications**

Elezgarai Gorka, Mascaro Vincenzo, Lopez Mikel, Zwysen Jeroen, Reina Alvaro, Bilbao Endika, Villar Irma, Worigi Imane, Kostalas George

ADDITIONAL INFORMATION

Spain

11:40
15m **Paper ID 51 - Model-based fault diagnosis for large-scale marine battery systems**

Reiter Alexander, Lehner Susanne, Bohlen Oliver, Sauer Dirk Uwe

ADDITIONAL INFORMATION

Germany

11:55
15m **Paper ID 122 - Modular representation of Components to Enable Generative Engineering**

Vepsäläinen Jari, Malik Rohail, Ahmad Muhammad

ADDITIONAL INFORMATION

Finland

12:10
15m **Paper ID 212 - Analysis of an Equivalent Consumption Minimization Strategy for a Fuel Cell Electric Aircraft**

Penta Marco, Fedele Emanuele, Manrique Camilo, Iannuzzi Diego, Accardo Grazia

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Round Table & Exhibitor 29/11/2024 -Room B

11:10
1h 50m **V-ACCESS**

General Assembly Meeting

ADDITIONAL INFORMATION

Room B - Ground Floor

Oral Session & EU Project & Round Table & Exhibitor 29/11/2024 -Room C

Round Table - Towards a Full Batteries Supply Chain In Italy and EU

11:10
10m **Introduction**

Ciro Attaianesse & Diego Iannuzzi

ADDITIONAL INFORMATION

Italy

11:20
15m **Maurizio Maggiore**

Formerly Policy Officer European Commission – Research and Innovation Department (RTD)

ADDITIONAL INFORMATION

USA

11:35
15m **Federico Vitali**

FAAM – FIB SpA

ADDITIONAL INFORMATION

Italy

11:50
15m **Lorenzo Orsini**

ALKEMIA SpA

ADDITIONAL INFORMATION

Italy

12:05
15m **Matteo Cavalletti**

MIDAC SpA

ADDITIONAL INFORMATION

Italy

12:20
15m **Peter Qvarfordt**

REGENERATE TECHNOLOGY

ADDITIONAL INFORMATION

?

12:35
15m **Discussion & Conclusion**

Ciro Attaianese & Diego Iannuzzi

ADDITIONAL INFORMATION

Italy

Oral Session & EU Project & Round Table & Exhibitor 29/11/2024 -Outdoor

EV Exhibitor

11:10
1h 50m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

End of Oral Session & EU Project & Round Table & Exhibitor 29/11/2024

13:00
1h 30m

Lunch

ADDITIONAL INFORMATION

[Via Partenope, 36, 80121 NAPLES](#)

Room Refreshment - 1st Floor

Oral Session & EV exhibitor 29/11/2024 -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

Azuaje-Berbeci **Bernardo** J., Ertan H. Bulent

ADDITIONAL INFORMATION

Turkey

14:45
15m

Paper ID 178 - Battery Modeling for Road Vehicles Application: a Comparative Study

Campagna **Nicola**, Bossi Giuseppe, Fedele Emanuele, Miceli Rosario, Damiano Alfonso, Rizzo Renato

ADDITIONAL INFORMATION

Italy

15:00
15m **Paper ID 86 - Kinetic Energy Recovery System for Electric Buses: A Method for Extending Mileage Range**

Elgenedy Mohamed, Singh Dharminder, Coman Chris

ADDITIONAL INFORMATION

UK

15:15
15m **Paper ID 141 - Feature Identification and Extraction for Battery Aging Estimation in Aircraft Auxiliary Applications**

Gauchia Lucia, Shekhar Shivanshu, Amaris Hortensia, Sargadui Jon

ADDITIONAL INFORMATION

Spain

15:30
15m **Paper ID 115 - Analytical Approach to Define the Stability Boundaries in Controlled DC Microgrids**

Bosich Daniele, Tavagnutti Andrea Alessia, Sulligoi Giorgio

ADDITIONAL INFORMATION

Italy

Oral Session & EV exhibitor 29/11/2024 -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**

Bande Rasmene, Toquica David, Kelouwani Souso, Agbossou Kodjo, Kloutse Follivi

ADDITIONAL INFORMATION

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

Kopacz Rafal, Kalinowski Krzysztof, Miskiewicz Rafal, Rabkowski Jacek

ADDITIONAL INFORMATION

Poland

15:00
15m

Paper ID 54 - Cost Analysis of Megawatt Charging and Overnight Charging for Battery Long-Haul Trucks

Otteny Felix, Mauch Lars, Klausmann Florian, Dörr Julian, Litauer Rebecca Elena, Lanz Luca

ADDITIONAL INFORMATION

Germany

15:15
15m

Paper ID 143 - Cross-compartment Virtio-loopback: a bare-metal virtualization solution for the edge

Panagopoulou Anna, Rigo Alvise, Raho Daniel

ADDITIONAL INFORMATION

Greece

Oral Session & EV exhibitor 29/11/2024 -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

Bassiony ilrahim, morsy sherif, salama gouda

ADDITIONAL INFORMATION

Egypt

14:45
15m

Paper ID 236 - Sailing Towards Efficiency: A Variational Mode Decomposition Based Approach to Forecasting Shipboard Electrical Power Consumption

Di Piazza Maria Carmela, Fazzini Paolo, La Tona Giuseppe, Diez Matteo

ADDITIONAL INFORMATION

Italy

15:00
15m

Paper ID 114 - Fault Diagnosis of Aircraft Power Systems Based on Transients and Artificial Intelligence

Guzman Ian, Babiceanu Radu

ADDITIONAL INFORMATION

USA

15:15
15m

Paper ID 173 - Multi-objective Control of Urban Railway Speed with Deep Reinforcement Learning

Lyu Mingyu, Geng Haoran, Pinon Pereira Dias Joao Victor, Miyatake Masafumi

ADDITIONAL INFORMATION

Japan

Oral Session & EV exhibitor 29/11/2024 -Outdoor

EV Exhibitor

14:30
1h 00m

Audi E-tron Q4, Audi E-tron Q6, Nissan Arya

ADDITIONAL INFORMATION

Outdoor

[Via Partenope, 36, 80121 NAPLES](#)

Oral Session & EV exhibitor 29/11/2024 -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**

Labigalini Marcio, Barreto Gilmar

ADDITIONAL INFORMATION

Brasil

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

ADDITIONAL INFORMATION

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

ADDITIONAL INFORMATION

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

ADDITIONAL INFORMATION

Italy

15:30
15m **Paper ID 62 - Energy Efficiency Analysis of BESS Installed in Polar Exploration Vessel**

Touat Amine

ADDITIONAL INFORMATION

France

15:45
15m

Paper ID 238 - Reinforcement Learning Based Energy Management System to Maximize Efficiency for the Hybrid Marine Propulsion System

Albakri Saeed, Mehran Kamyar, Gadoue Shady

ADDITIONAL INFORMATION

UK

End of Oral Session & EV exhibitor 29/11/2024

16:00
20m

Closing Session ESARS-ITEC 2024

ADDITIONAL INFORMATION

Room Magna - 1st Floor