

ESARS-ITEC 2023 - 28/03/2023

Mar 28, 2023

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
17:30 1h 30m	<b>REGISTRATION</b>		
↓30m			
19:30 0	<b>WELCOME RECEPTION - CIRCOLO SOTTUFFICIALI</b>	Calle Seconda de la Fava, 2179, 30122 Venezia VE	
19:30			

TOTAL LENGTH: 2h 00m

■ 2023 GENERAL TRACK 
 ■ AIRCRAFT 
 ■ SPECIAL SESSION Battery management using estimated state of health, state of power, and state of safety 
 ■ WORKSHOP 
 ■ SPECIAL SESSION Design and Management of Battery Packs for Electric and Hybrid Vehicles Applications

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
08:15 45m	<b>REGISTRATION</b>	Palazzo San Martino	
09:00 45m	<b>Welcome Cerimony</b>	Biblioteca - Palazzo San Martino	
09:45 45m	<b>KEYNOTE - Prof. Anna G. Stefanopoulou</b>	<b>"The Price of Battery Degradation and the Value of predicting Remaining Useful Life (RUL)"</b> Biblioteca - Palazzo San Martino	
10:30 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>	Castello 2168 – 30122 VENEZIA	
11:00 2h 00m	<b>MORNING 29/3/2023</b> <b>Biblioteca - Palazzo San Martino</b>		
<b>MORNING SESSION 29/3/2023 "General Track"</b>			
11:00 15m	<b>DC Series Arc Fault Detection Using Fractal Theory</b>	Danny R Seeley; Mark Sumner; David Thomas; Steve_Greedy	<a href="https://edas.info/M1570871533.pdf">1570871533.pdf</a>
11:15 15m	<b>Unidirectional DC-DC Converters for Ultrafast Charging of Electrical Vehicles</b>	Oswaldo Lopez-Santos; David Alejandro Zambrano-Prada; Luis martinez-Salamero; Abdelali El Aroudi; Luis Vazquez-Seisdedos	<a href="https://edas.info/M1570874612">https://edas.info/M1570874612</a>
11:30 15m	<b>GA-Based Features Selection for Electro-Chemical Impedance Spectroscopy on Lithium Iron Phosphate Batteries</b>	Carmine Bourelly; Michele Vitelli; Filippo Milano; Mario Molinara; Francesco Fontanella; Luigi Ferrigno	<a href="https://edas.info/M1570878891">https://edas.info/M1570878891</a>
11:45 15m	<b>Online Loss Reduction of Isolated Bidirectional DC-DC Quad-Active Bridge Converters</b>	Ahmed Ibrahim; Tommaso Caldognetto; Davide Biadene; Paolo Mattavelli	<a href="https://edas.info/M1570879125">https://edas.info/M1570879125</a>
12:00 15m	<b>Capacitor Voltage Balancing of Four-Level ANPC and <math>\pi</math>-Type Converters Based on Simplified Virtual-Vector PWM</b>	Muhammad Attique Qamar; Alber Filba-Martinez; Sergio Busquets-Monge; Kui Wang	<a href="https://edas.info/M1570879183">https://edas.info/M1570879183</a>
12:15 15m	<b>Finite Element Analysis of a Set of Four Electric Machines With the Same Stator Armature and Main Size of the Rotor Magnetic Core</b>	Virgiliu Fireteanu	<a href="https://edas.info/M1570875175">https://edas.info/M1570875175</a>
12:30 15m	<b>Modeling and Experimental Validation of Tram Power Consumption</b>	Nermin Čolo; Senad Huseinbegovic; Senad Smaka; Branislava Perunicic; Šemsudin Mašić	<a href="https://edas.info/M1570887105">https://edas.info/M1570887105</a>
12:45 15m	<b>Performance Analysis of a Cell Equalizer Based on a Multiple Active Bridge</b>	Emanuele Di Fazio; Francesco Porpora; Mauro Di Monaco; Giuseppe Tomasso	<a href="https://edas.info/M1570892599.pdf">1570892599.pdf</a>
13:00			
1h 45m	<b>Aula Bernotti - Palazzo San Martino</b>		

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>MORNING SESSION 29/3/2023 "Aircraft"</b>			
11:00 15m	<b>Fuel Cell/Battery Hybrid Electric System for UAV</b>	Jenica Ileana Corcau; Liviu Dinca	<a href="https://edas.info/M1570871553">https://edas.info/M1570871553</a>
11:15 15m	<b>Design Approach of an Integrated SiC-Inverter for an Electric Aircraft</b>	Dirk Fischer; Robert Rohn; Regine Mallwitz	<a href="https://edas.info/M1570873547">https://edas.info/M1570873547</a>
11:30 15m	<b>Simplified Modelling and Control of Dual Active Bridge Converter for Future Electrified Aerospace Application</b>	Xingyu Yan; Yiren Zhu; Zhenyu Wang; Tao Yang; Serhiy Bozhko; Patrick Wheeler	<a href="https://edas.info/M1570884216">https://edas.info/M1570884216</a>
11:45 15m	<b>Ground-Based Power Supply System to Operate Hybrid-Electric Aircraft for Future Regional Airports</b>	Markus Meindl; Martin März; Kai Johannes Weber	<a href="https://edas.info/M1570873569">https://edas.info/M1570873569</a>
12:00 15m	<b>Implementation of Alternative Aircraft Evaluation Techniques to Assess Electrical Aircraft Performance</b>	Roland Furmanek; Roman Skrasek; Bartosz Filochowski; Sébastien Gonczaronek	<a href="https://edas.info/M1570873879">https://edas.info/M1570873879</a>
12:15 15m	<b>Optimal Design of a Three-Phase 540V/70kVA SiC Inverter for Aircraft Applications</b>	Tran Duc Hoan; Bernardo Cougo; Gilles Segond; Hans Hoffmann Sathler	<a href="https://edas.info/M1570876046">https://edas.info/M1570876046</a>
12:30 15m	<b>Power Distribution and Propulsion System for an All-Electric Regional Aircraft</b>	Janine Ebersberger; Ralf Johannes Keuter; Bernd Ponick; Axel Mertens	<a href="https://edas.info/M1570877699">https://edas.info/M1570877699</a>

12:45

2h 00m

Ex Sala TV - Circolo Ufficiali

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>MORNING 29/3/2023 SPECIAL SESSION "Battery management using estimated state of health, state of power, and state of safety" and ETUT Project</b>			
11:00 15m	<b>Dynamic Behavior of an Aged Lithium Phosphate-Iron Battery</b>	Diego Iannuzzi; Babak Fahimi; Ciro Napolitano	<a href="https://edas.info/M1570872048">https://edas.info/M1570872048</a>
11:15 15m	<b>Parameters Identification for Open Circuit Voltage Characteristic in Battery Models</b>	Elisa Mostacciolo; Luigi Iannelli; Domenico Natella; Silvio Baccari; Francesco Vasca	<a href="https://edas.info/M1570873098">https://edas.info/M1570873098</a>
11:30 15m	<b>Enhanced Online Identification of Battery Models Exploiting Data Richness</b>	Chengxi Cai; Daniel J. Auger; Suresh Perinpanayagam	<a href="https://edas.info/M1570878491">https://edas.info/M1570878491</a>
11:45 15m	<b>A Novel Root-Finding Algorithm to Solve the Pseudo-2D Model of a Lithium-Ion Battery</b>	Don Toshan Gayan De Silva Wickramanayake; Mehrnaz Javadipour; Kamyar Mehran	<a href="https://edas.info/M1570880895">https://edas.info/M1570880895</a>
12:00 15m	<b>Capacity Fade Estimation of LiFePo Cells Based on Improved Impulse Response Method: Experimental results</b>	Pagliarini; Pasquale Cennamo; Filippo Orsini; Luigi Petrazzuoli; Marcello Spinelli; Paola Satariano	<a href="https://edas.info/M1570878741">https://edas.info/M1570878741</a>
12:15 15m	<b>Cycle Aging Effect on the Open Circuit Voltage of Lithium-Ion Battery</b>	Simone Barcellona; Lorenzo Codecasa; Silvia Colnago; Luigi Piegari	<a href="https://edas.info/M1570878711">https://edas.info/M1570878711</a>
12:30 15m	<b>Enhanced Control of PV CHB Inverter With Embedded BESS</b>	Monica De Riso; Pierluigi Guerriero; Marino Coppola; Santolo Daliento; Andrea Del Pizzo	<a href="https://edas.info/M1570887593">https://edas.info/M1570887593</a>
12:45 15m	<b>An Integrated Approach to Lithium-Ion Battery Cell Management Through Accurate Voltage Measurement and Cell Balancing</b>	Regis Nibaruta; Prasanth Venugopal; Gert Rietveld; Volodymyr Havryliuk; Thiago Batista Soeiro	<a href="https://edas.info/M1570890797">https://edas.info/M1570890797</a>
13:00 15m	<b>A Hardware-Based Bidirectional Power Flow Decoupling Approach for Multi-Active-Bridge Converters</b>	Peyman Koochi; Alan J Watson; Thiago Batista Soeiro; Jon Clare; Marco Rivera; Prasanth Venugopal; Patrick Wheeler	<a href="https://edas.info/M1570891499">https://edas.info/M1570891499</a>
13:15 △30m	<b>ETUT Project Meeting</b>		

13:45

13:00 1h 30m	<b>LUNCH - CIRCOLO UFFICIALI "Adriano FOSCARI"</b>	Castello 2168 – 30122 VENEZIA
14:30 3h 00m	<b>AFTERNOON 29/3/2023</b>	
	<b>Aula 1 - Palazzo San Martino</b>	

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>AFTERNOON SESSION 29/3/2023 "General Track"</b>			
14:30 15m	<b>Upgrading a DC Source to a PHIL Amplifier</b>	Lucas Rotava; Selimcan Deda; Oliver König; Gernot Pammer	<a href="https://edas.info/M1570883996">https://edas.info/M1570883996</a>
14:45 15m	<b>Advantages of a Variable Board Supply Voltage in All-Electric Aircraft With Regard to Cosmic Radiation Induced Failures</b>	Leon Fauth; Janine Ebersberger; Yongtao Cao; Jens Friebe	<a href="https://edas.info/M1570882884">https://edas.info/M1570882884</a>
15:00 15m	<b>Smart Integration and Energy Optimization of EVs Charging Systems in a Nanogrid</b>	Stefano Leonori; Cristina Moscatiello; Maria Carmen Falvo; Fabio Massimo Frattale Mascioli	<a href="https://edas.info/M1570884127">https://edas.info/M1570884127</a>
15:15 15m	<b>Evaluation of the Effects of Propeller Imbalance on PM Motors for Aircraft Electric Propulsion</b>	Gianluca Brando; Adolfo Dannier; Andrea Del Pizzo; Luigi Pio Di Noia	<a href="https://edas.info/M1570885672">https://edas.info/M1570885672</a>
15:30 15m	<b>Virtio-FPGA: A Virtualization Solution for SoC-Attached FPGAs</b>	Anna Panagopoulou; Michele Paolino; Daniel Raho	<a href="https://edas.info/M1570875995">https://edas.info/M1570875995</a>
↓15m			
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30 1h 00m	<b>WORKSHOP "Port Electrification"</b>	John Prousalidis	
17:30			
3h 15m	<b>Aula 2 - Palazzo San Martino</b>		

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>AFTERNOON SESSION 29/3/2023 "Aircraft"</b>			
14:30 15m	<b>Driving Power Supply for Ultrasound Piezoelectric Transducers</b>	Modar Jomaa; François Costa; Dejan Vasic; Pierre-Etienne Lévy; Marwan Ali	<a href="https://edas.info/M1570878533">https://edas.info/M1570878533</a>
14:45 15m	<b>Hydrogen-Fuelled Fixed-Wing RPAS. an Approach to Design and Size the Electrical Propulsion System</b>	Cirilo Delgado Asencio; José Manuel Andújar Márquez; Francisca Segura Manzano; Juan Mora Macías	<a href="https://edas.info/M1570878980">https://edas.info/M1570878980</a>
15:00 15m	<b>Development of Quadrotor Hovering System With Permanent Magnet Synchronous Motors</b>	Joon Sung Park; Hyoung-Kyu Yang; Pooreum Jang; Yong-Su Noh; Byong Jo Hyon	<a href="https://edas.info/M1570878701">https://edas.info/M1570878701</a>
15:15 15m	<b>An Advanced Power Generation Architecture for More-Electric Aircraft Applications</b>	Ge Bai; Tao Yang; Seang Shen Yeoh; Xiaoyu Lang; Serhiy Bozhko; Patrick Wheeler	<a href="https://edas.info/M1570879003">https://edas.info/M1570879003</a>
15:30 15m	<b>Optimised Architecture Design for an MEA Power Distribution System Considering Load Profile and Fault-Tolerance</b>	Xin Wang; Jason Atkin; Seang Shen Yeoh; Serhiy Bozhko	<a href="https://edas.info/M1570879021">https://edas.info/M1570879021</a>
15:45 15m	<b>Design and Efficiency Measurement of a Sub-Unit for a 20kW DC-DC Multiphase Power Converter</b>	Bastien Pasquet; Sébastien Vinnac; Jean-Marc Blaquièrre; Thierry Meynard; Sébastien Sanchez	<a href="https://edas.info/M1570879219">https://edas.info/M1570879219</a>
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30 15m	<b>Overview on the Effects of Mission Profiles on Radiation Induced Failures in All-Electric Aircraft</b>	Leon Fauth; Jens Friebe	<a href="https://edas.info/M1570879233">https://edas.info/M1570879233</a>
16:45 15m	<b>Investigation of Electric Motors for All-Electric Aircraft With Different Material Combinations From an Environmental Perspective</b>	Ralf Johannes Keuter	<a href="https://edas.info/M1570879236">https://edas.info/M1570879236</a>
17:00 15m	<b>Brazilian Engineering Research Center for the Aerial Mobility of the Future</b>	Domingos Alves Rade; Luciano J. Pedrote dos Santos; José A Pomilio; Roberto G. Annes da Silva; Carlos H. C. Ribeiro; Alfredo R. de Faria; Emilia Villani	<a href="https://edas.info/M1570883080">https://edas.info/M1570883080</a>
17:15 15m	<b>Inverter Emulator as Multi-Purpose Test System for Aerospace Electric Power Systems</b>	Selimcan Deda; Oliver König; Gernot Pammer; Thomas Haidinger	<a href="https://edas.info/M1570884012">https://edas.info/M1570884012</a>
17:30 15m	<b>Design and Verification of Aircraft Electrical Power System</b>	Huseyin Sagirkaya	<a href="https://edas.info/M1570888349">https://edas.info/M1570888349</a>

17:45

3h 00m Ex Sala TV - Circolo Ufficiali

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>AFTERNOON 29/3/202 SPECIAL SESSION "Design and Management of Battery Packs for Electric and Hybrid Vehicles Applications"</b>			
14:30 15m	<b>Low Complexity and High Safety Architecture of Automotive Li-Ion Battery Management Systems in Compliance With the ISO 26262 Standard</b>	Apostolos Delizonas; Christos Mademlis; Evangelos Tsioumas; Dimitrios Papagiannis; Nikolaos Jabbour; Tilemaxos Matiakis	<a href="https://edas.info/M1570880945">https://edas.info/M1570880945</a>
14:45 15m	<b>A Novel Bidirectional CLC-T Resonant Imittance Converter for CC / CV Battery Charging</b>	Merlin Mary N J; Shelas Sathyan	<a href="https://edas.info/M1570882016">https://edas.info/M1570882016</a>
15:00 15m	<b>Energy Storage System Hybridization Algorithm for Mobility Applications Based on Future Battery and Fuel Cell Technologies</b>	Bruno Lemoine; Priscilla Caliandro; Thomas Wannemacher; Nils Baumann	<a href="https://edas.info/M1570880896">https://edas.info/M1570880896</a>
15:15 15m	<b>Opportunity charging for public transportation opportunities and challenges</b>	Nicola Campagna, Massimo Caruso, Vincenzo Castiglia, Rosario Miceli, Filippo Pellitteri	<a href="https://edas.info/M1570892397">1570892397</a>
15:30 15m	<b>Battery Thermal Management Systems: A Case Study on Li-NMC Storage Systems for Electric Vehicles</b>	Clemente Capasso; Luigi Iannucci; Stanislao Patalano; Ottorino Veneri; Ferdinando Vitolo	<a href="https://edas.info/M1570881666">https://edas.info/M1570881666</a>
15:45 15m	<b>A Thermal Investigation on a Commercial Stack of Prismatic Lithium-Ion Batteries</b>	Nicolò Zatta; Giovanni Bonanno; Andrea Trovò; Simone Visonà; Giovanni Cristofoli; Lorenzo Mozzato; Paolo Mattavelli; Massimo Guarnieri	<a href="https://edas.info/M1570879127">https://edas.info/M1570879127</a>
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30 1h 00m	<b>ROUND TABLE "Battery Lifetime – Oversizing vs. Enhanced diagnostics"</b>	Stephan Bihn	

17:30

17:45

TOTAL LENGTH: 9h 30m

■ ROAD 
 ■ RAILWAYS 
 ■ SPECIAL SESSION Innovative solutions to increase energy efficiency in railways 
 ■ WORKSHOP 
 ■ CROSS-BOARD TOPICS

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
08:15 45m	<b>REGISTRATION</b>	Biblioteca - Palazzo San Martino	
09:00 45m	<b>KEYNOTE- Prof. Babak Fahimi</b>	<b>"Optimal electric propulsion for land and air vehicles"</b> Biblioteca - Palazzo San Martino	
09:45 2h 45m	<b>MORNING 30/3/2023</b> <b>Biblioteca - Palazzo San Martino</b>		
<b>MORNING SESSION 30/3/2023 "Road"</b>			
09:45 15m	<b>Intelligent Driver Monitoring System for Safe Driving</b>	Adarsh Vijay	<a href="https://edas.info/M1570870588">https://edas.info/M1570870588</a>
10:00 15m	<b>Multiport DC-DC Converter for Integrating Energy Systems in All-Electric Vehicles</b>	Immanuel N Jiya; Pasan Gunawardena; Khang Huynh; Nand Kishor; Yunwei Li	<a href="https://edas.info/M1570873190">https://edas.info/M1570873190</a>
10:15 15m	<b>Development of Electric Drive System for Two In-Wheel Motors</b>	Hyoung-Kyu Yang; Dae Yeon Hwang; Sang Min Park; Joon Sung Park; Dongmyoung Joo	<a href="https://edas.info/M1570878721">https://edas.info/M1570878721</a>
10:30 15m	<b>Integrated Braking and Traction Torque Vectoring Control Based on Vehicle Yaw Rate for Stability Improvement of All-Wheel-Drive Electric Vehicles</b>	Mahmoud Said Jneid; Peter Harth	<a href="https://edas.info/M1570875701">https://edas.info/M1570875701</a>
10:45 15m	<b>Benefits of Selecting PMASR Machines as Traction Motors in Battery Electric Forklift Trucks</b>	Matteo Olivo; Alberto Tassarolo; Luca De Carli; Riccardo Pozzo	<a href="https://edas.info/M1570876454">https://edas.info/M1570876454</a>
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 15m	<b>Drive Cycle Evaluation and Consumption of PM Motors for a Typical Battery Electric City Bus</b>	Emma Grunditz; Mikael Alatalo	<a href="https://edas.info/M1570878962">https://edas.info/M1570878962</a>
11:45 15m	<b>Multi-Battery Swapping Station Modelling for EVs With Strategic Discounting and Solar Energy</b>	Manish Sharma; Deep Kiran	<a href="https://edas.info/M1570879018">https://edas.info/M1570879018</a>
12:00 15m	<b>Normalised Flux Weakening Control Technique Acting on the Actual Speed for Automotive Dual Three-Phase IPMSMs</b>	Adriano Navarro; Edorta Ibarra; Iñigo Kortabarria; Andrés Sierra-González; Ibon Elosegui	<a href="https://edas.info/M1570879991">https://edas.info/M1570879991</a>
12:15 15m	<b>A Traffic Flow Modeling Approach Based on Car-Following Models</b>	Roaa Sabah Naser; Saad Talib Hasson	
12:30			
3h 15m	<b>Aula Bernotti - Palazzo San Martino</b>		



TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>MORNING SESSION 30/3/2023 "V-Access"</b>			
09:45 1h 15m	<b>EU Project V-Access KO Meeting*</b>	Vessel Advanced Clustered and Coordinated Energy Storage Systems <b>*ACCESS ONLY TO PARTNERS</b>	
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 1h 30m	<b>EU Project V-Access KO Meeting*</b>	Vessel Advanced Clustered and Coordinated Energy Storage Systems <b>*ACCESS ONLY TO PARTNERS</b>	
13:00			
<b>2h 45m Ex Sala TV - Circolo Ufficiali</b>			
<b>MORNING SESSION 30/3/2023 "Railways" and "SPECIAL SESSION "Innovative solutions to increase energy efficiency in railways"</b>			
09:45 15m	<b>Propulsion System Based on the NPC Multi-Source Inverter for Battery Hybrid Trams: Experimental Validation</b>	Emanuele Fedele; Diego Iannuzzi; Ivan Spina	<a href="https://edas.info/M1570874310">https://edas.info/M1570874310</a>
10:00 15m	<b>Modelling and Determination of Short Circuit Traction Line Parameters for the Italian 3 kV DC Railway System</b>	Antonio Di Pasquale; Mario Pagano; Fabio Villone; Antonio Martinelli; Luigi Rufolo; Maurizio Santamaria; Francesco Vaccaro	<a href="https://edas.info/M1570878759">https://edas.info/M1570878759</a>
10:15 15m	<b>A Comprehensive Study of a Railway Power Conditioner for 25 kV Substations With Scott and V/V Transformer</b>	Paul Sacco; Philippe Ladoux; Sébastien Sanchez; Mahmoud Hassan	<a href="https://edas.info/M1570886828">https://edas.info/M1570886828</a>
10:30 15m	<b>New Model-Based Algorithm for Fault Detection and Identification in DC Railway Systems</b>	Damiano Lanzarotto; Francois Wallart; Paul Verrax; Alberto Bertinato; Loic Leclere; Gal Blaszczyk	<a href="https://edas.info/M1570872257">https://edas.info/M1570872257</a>
↓15m			
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 15m	<b>Battery Trains Operation From the Infrastructure Manager Perspective</b>	Benoit Sonier; Bogdan Vulturescu; Ignacio Riezu; Dimitri Mantel; Thomas Bausseron	<a href="https://edas.info/M1570873629">https://edas.info/M1570873629</a>
11:45 15m	<b>Opportunity Charging of Electric Buses Directly From a DC Metro Catenary and Without Storage</b>	Ibrahim Diab; Gautham Ram Chandra Mouli; Pavol Bauer	<a href="https://edas.info/M1570879767">https://edas.info/M1570879767</a>
12:00 15m	<b>A Statistical Approach for the Optimal Sizing of Partial Electrification for Battery Trains</b>	Maxime Juston; Bogdan Vulturescu; André-Philippe Chamaret	<a href="https://edas.info/M1570878885">https://edas.info/M1570878885</a>
12:15 15m	<b>Comparison of Two Cascaded Converter Topologies for Voltage Balancing in AC Railway Substations</b>	Didier Flumian; Philippe Ladoux; Joseph Fabre	<a href="https://edas.info/M1570879595">https://edas.info/M1570879595</a>
12:30			
13:00 1h 30m	<b>LUNCH - CIRCOLO SOTTUFFICIALI</b>	Calle Seconda de la Fava, 2179, 30122 Venezia VE	
14:30	<b>afternoon 30/3/2023</b>		
2h 00m	<b>Biblioteca - Palazzo San Martino</b>		

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>AFTERNOON SESSION 30/3/2023 "Road"</b>			
14:30 15m	<b>Comparison of V-Shaped IPM Machines Winding Topologies for Heavy-Duty EV Applications</b>	Leia George; Fengyu Zhang; Gaurang Vakil; Chris Gerada	<a href="https://edas.info/M1570882746">https://edas.info/M1570882746</a>
14:45 15m	<b>A Neural Embedding-Based Recommender System to Get the Most Out of EV Recharge Times</b>	Luigi Libero Lucio Starace; Luca Bianco; Sergio Di Martino	<a href="https://edas.info/M1570883962">https://edas.info/M1570883962</a>
15:00 15m	<b>Modernized or Traditional Jeepney: A Comparative Study for Future-Proofing Philippines' Jeepney Transport System</b>	Keanu Oryck B Escobar; John Paolo B Esmele; Jhon Theo G Laurian; Jocelyn Buluran	<a href="https://edas.info/M1570883007">https://edas.info/M1570883007</a>
15:15 15m	<b>Future Workplace EV Charging Architectures: DC and AC Charging Choices</b>	Mohamed Yasko; Attila Balint; Silvia Colnago; Johan Driesen; Wilmar Martinez	<a href="https://edas.info/M1570889133">https://edas.info/M1570889133</a>
15:30 15m	<b>Assessing E-Vehicle Utilization in Supply Chains</b>	Jyri Vilko; Dong Liu; Lassi Aarniovuori	<a href="https://edas.info/M1570884113">https://edas.info/M1570884113</a>
↓15m			
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30			

3h 45m **Aula Bernotti - Palazzo San Martino**

<b>AFTERNOON SESSION 30/3/2023 "Cross-board Topics"</b>			
14:30 1h 30m	<b>Workshop "V-Access"</b>	Vessel Advanced Clustered and Coordinated Energy Storage Systems	
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30 15m	<b>Using the Thermal Inertia of Trains for Contributing to Primary Frequency Control in Grids With Photovoltaic Generation</b>	Jesús H Araúz; Sergio Martinez	<a href="https://edas.info/M1570881393">https://edas.info/M1570881393</a>
16:45 15m	<b>Control and Coordination of Ultra-Capacitor and SMES Systems for Transient Power Provision in Electric Vessels</b>	Faysal Hardan, Pietro Tricoli	<a href="https://edas.info/M1570892393">https://edas.info/M1570892393</a>
17:00 15m	<b>Optimising the Energy System for Electrified Airport Operations Using Digital Twin</b>	Stefano Ferrari; Mika Grundström; Tommi Laitinen	<a href="https://edas.info/M1570883191">https://edas.info/M1570883191</a>
17:15 15m	<b>High Frequency Interactions Among Power Converters in Built-In Dc Networks</b>	José A Pomilio; André F. Hernandez; Debora P Damasceno; Mateus P Dias; Joao Inacio Yutaka Ota; Gustavo Ortenzi; Rafael K. Carneiro	<a href="https://edas.info/M1570878942">https://edas.info/M1570878942</a>
17:30 15m	<b>Analytical Model for Device Currents in 5-Level Active Neutral Point Clamped Converter</b>	Daniel Zakzewski; Rakesh Resalayyan; Apurv Yadav; Alireza Khaligh	<a href="https://edas.info/M1570878466">https://edas.info/M1570878466</a>
17:45 15m	<b>Low-Temperature PEM Fuel Cell Voltage Prediction Linked to Operating Conditions for a Mission Profile</b>	Mélanie Grignon; Amine Jaafar; Christophe Turpin; André Rakotondrainibe; Benoit Guenot; Emilie Soyez	<a href="https://edas.info/M1570878447">https://edas.info/M1570878447</a>
18:00 15m	<b>Technico Economic Analysis of EV Charging Station in Smart Grid</b>	Mariacristina Roscia; Alexandra Catalina LAzaroiu; Mihai Popescu; Luiza Brindusa Popa; Claudia Laurenta Popescu; Monica Alexandru	<a href="https://edas.info/M1570879741">https://edas.info/M1570879741</a>
18:15			

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
3h 00m	<b>Ex Sala TV - Circolo Ufficiali</b>		
<b>AFTERNOON SESSION 30/3/2023 "Innovative solutions to increase energy efficiency in railways"</b>			
14:30 15m	<b>Investigation and Optimisation of Urban Rail Transit Lifecycle Energy Saving in Coordinating Section Running Time and Slope</b>	Haoran Geng; Masafumi Miyatake	<a href="https://edas.info/M1570878930">https://edas.info/M1570878930</a>
14:45 15m	<b>Diagnosis of Energy Consumption During Parking of Different Rail Vehicles and Evaluation of Energy Savings Solutions</b>	André-Philippe Chamaret; Didier Frugier; Patrick Henry; Jérôme Deon; Luis Maria Alonso	<a href="https://edas.info/M1570884332">https://edas.info/M1570884332</a>
15:00 15m	<b>Smart Hybrid Electric Railway Grids: A Comparative Study of Architectures</b>	Hamed Jafari Kaleybar; Morris Brenna; Francesco Castelli-Dezza; Maria Stefania Carmeli	<a href="https://edas.info/M1570884340">https://edas.info/M1570884340</a>
15:15 15m	<b>Sizing the Energy Source and Battery for Electrical Driven Railway Vehicles for Non-Electrified Lines</b>	Shunsuke Jindo; Kana Matsunaga; Keiichiro Kondo	<a href="https://edas.info/M1570888837">https://edas.info/M1570888837</a>
15:30 15m	<b>Two-Phase Interleaved DC-DC Converter With 3.3 kV SiC MOSFET Modules</b>	Radek Sobieski; Rafal Miśkiewicz; Jacek Rabkowski; Rafal Kopacz	<a href="https://edas.info/M1570887837">https://edas.info/M1570887837</a>
↓15m			
16:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
16:30 1h 00m	<b>WORKSHOP "Railway Efficiency"</b>	Philippe Ladoux	
17:30			
↓1h 15m			
19:30 3h 30m	<b>GALA DINNER -CIRCOLO UFFICIALI "Adriano FOSCARI"</b>	Castello 2168 – 30122 VENEZIA	
23:00			

TOTAL LENGTH: 14h 45m

■ SHIP 
 ■ SPECIAL SESSION Sustainable Maritime 
 ■ WORKSHOP 
 ■ SPECIAL SESSION Wound Field and PM-free Synchronous Machines: Innovative Design, Control and Diagnostic Solutions for Transportation Applications

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
09:00 45m	<b>KEYNOTE - Ing. Pierluigi Punter</b>	<b>"Future of Power Generation on board of cruise vessels"</b> Biblioteca - Palazzo San Martino	
09:45 3h 15m	<b>MORNING 31/3/2023</b> <b>Biblioteca - Palazzo San Martino</b>		
<b>MORNING SESSION 31/3/2023 "Ship"</b>			
09:45 15m	<b>Average Modeling of DC-DC Converters for DC Shipboard Microgrids With Constant Power Loads</b>	Fabio D'Agostino; Federico Silvestro; Fabrizio Sivori; Antonio Fidigatti; Enrico Ragaini	<a href="https://edas.info/M1570878761">https://edas.info/M1570878761</a>
10:00 15m	<b>Resonant Controllers to Achieve Torsional Stability: A Ship Case Study</b>	Lorenzo Bongini; Rosa Anna Mastromauro	<a href="https://edas.info/M1570887414">https://edas.info/M1570887414</a>
10:15 15m	<b>A Case Study on High-Temperature Fuel Cells for Hybrid Electric Ship Propulsion</b>	Flavio Balsamo; Clemente Capasso; Tommaso Coppola; Luca Micoli; Roberta Russo; Ottorino Veneri	<a href="https://edas.info/M1570879142">https://edas.info/M1570879142</a>
10:30 15m	<b>Scaling of Hybrid Propulsion in Respect of Power, Energy and Redundancy</b>	Jens Biebach; Michael Lorenz; Alfons Doerr; Alexander Oswald	<a href="https://edas.info/M1570879198">https://edas.info/M1570879198</a>
10:45 15m	<b>Reliability Modelling of Marine Hybrid Power and Propulsion System Considering Operation Profile</b>	Ziwen Wang; Siamak Karimi; Mehdi Zadeh; Markus Heimdal	<a href="https://edas.info/M1570879013">https://edas.info/M1570879013</a>
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 15m	<b>Study and Validation of a Contra-Rotating Dual Rotor Switched Reluctance Machine in Marine Propulsion</b>	Ruben De Croo; Thomas Van Lierde; Frederik De Belie	<a href="https://edas.info/M1570883202">https://edas.info/M1570883202</a>
11:45 15m	<b>A Reduced Order Model for the Stable LC-Filter Design on Shipboard DC Microgrids</b>	Andrea Alessia Tavagnutti; Daniele Bosich; Stefano Pastore; Giorgio Sulligoi	<a href="https://edas.info/M1570874719">https://edas.info/M1570874719</a>
12:00 15m	<b>Water Transport Decarbonization: Preliminary Case Study in Venice</b>	Alessandro Saldarini; Cristian Giovanni Colombo; Michela Longo; Morris Brenna; Seyedmahdi Miraftebzadeh; Wahiba Yaici	<a href="https://edas.info/M1570878696">https://edas.info/M1570878696</a>
12:15 15m	<b>Impact of Fuel Switch to Methanol on the Design of an All Electric Cruise Ship</b>	Serena Bertagna; Vittorio Buccì; Alberto Marinò; Giorgio Sulligoi; Andrea Vicenzutti	<a href="https://edas.info/M1570878746">https://edas.info/M1570878746</a>
12:30 15m	<b>Review on EMC Standards (9-500 kHz) for DC Microgrids to Support Arc Fault Detection &amp; Power Line Communication and Its Potential Application in Hybrid Ships</b>	Da Wang; Dominique Weyen; Paul Van Tichelen	<a href="https://edas.info/M1570888813">https://edas.info/M1570888813</a>
12:45 15m	<b>Minimization of Dc-Link Capacitance in Voltage Source Rectifiers Through Nonlinear Controls Based on Lyapunov's Direct Method</b>	Mark Vygoder; Robert M Cuzner; Brian S.R. Armstrong	<a href="https://edas.info/M1570880110">https://edas.info/M1570880110</a>

13:00

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
3h 15m	<b>Aula Bernotti - Palazzo San Martino</b>		
<b>MORNING 31/3/2023 SPECIAL SESSION "Sustainable Maritime"</b>			
09:45 15m	<b>Holistic Design of a Twin-Hull Short-Sea Shipping Vessel With Hybrid-Electric Propulsion</b>	Panagiotis Margaronis; Aphrodite Kanellopoulou; Nicholas Sillionis; Dimitrios Liarokapis; Elias Sofras; John Prousalidis	<a href="https://edas.info/M1570883109">https://edas.info/M1570883109</a>
10:00 15m	<b>A Security-Constrained Optimal Power Management Algorithm for Shipboard Microgrids With Battery Energy Storage System</b>	Fabio D'Agostino; Marco Gallo; Matteo Saviozzi; Federico Silvestro	<a href="https://edas.info/M1570879518">https://edas.info/M1570879518</a>
10:15 15m	<b>Integrated Energy Systems for Green Ports; A Cost Model and Case Study</b>	Ritvana Rrukaj; Mehdi Zadeh	<a href="https://edas.info/M1570887167">https://edas.info/M1570887167</a>
10:30 15m	<b>The SSE-ID Card of Ships in the Sustainable Maritime Framework</b>	John Prousalidis; Fabio D'Agostino; Anastasios Manos; Daniele Bosich	<a href="https://edas.info/M1570888514">https://edas.info/M1570888514</a>
10:45 15m	<b>The Maritime Sector in the Electric Energy Markets</b>	Anastasios Manos; Dimitrios Lyridis; John Prousalidis	<a href="https://edas.info/M1570884210">https://edas.info/M1570884210</a>
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 15m	<b>Progress in Marine Hybrid Propulsion Drive Systems</b>	Marco Altosole; Flavio Balsamo; Andrea Bove; Ugo Campora; Nunziante Ianniello; Luigi Vitiello	<a href="https://edas.info/M1570879228">https://edas.info/M1570879228</a>
11:45 15m	<b>Changes in Weight and Stability on Ships After Conversion From Diesel to Hybrid-Electric</b>	Germano Degan	<a href="https://edas.info/M1570879391">https://edas.info/M1570879391</a>
12:00 △15m	<b>A Hybrid-Electric Passenger Vessel for Inland Waterway</b>	Donato Padolecchia; Samuele Utzeri; Luca Braidotti; Alberto Marinò	
12:00 1h 00m	<b>WORKSHOP "Electrification in underwater domain"</b>		
13:00			
1h 55m	<b>Ex Sala TV - Circolo Ufficiali</b>		

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
<b>MORNING 31/3/2023 SPECIAL SESSION "Wound Field and PM-free Synchronous Machines: Innovative Design, Control and Diagnostic Solutions for Transportation Applications"</b>			
09:45 15m	<b>Review and Future Developments of Wound Field Synchronous Motors in Automotive</b>	Gaia Petrelli; Stefano Nuzzo; Tianjie Zou; Davide Barater; Giovanni Franceschini; Chris Gerada	<a href="https://edas.info/M1570888915">https://edas.info/M1570888915</a>
10:00 15m	<b>Optimal Shaping for Electrically Excited Synchronous Motor</b>	Luca Cinti; Nicola Bianchi	<a href="https://edas.info/M1570890491">https://edas.info/M1570890491</a>
10:15 15m	<b>Operating Areas Overview of Electrically Excited Synchronous Motors</b>	Charbel Zaghrini; Gabriel Khoury; Maurice Fadel; Ragi Ghosn; Flavia Khatounian	<a href="https://edas.info/M1570888962">https://edas.info/M1570888962</a>
10:30 15m	<b>PM-Free Electric Motor Powertrains in Road and Rail Transport: An Overview</b>	Fabrizio Marignetti; Ion Boldea; Luigi Fratelli; Giuseppe Graber; Mario Porzio	<a href="https://edas.info/M1570882681">https://edas.info/M1570882681</a>
10:45 15m	<b>Design of Electric Spindle Control System for High-Grade CNC Machine Tools</b>	Jinhua Liang; Haiping Xu; Wei Liu	<a href="https://edas.info/M1570882855">https://edas.info/M1570882855</a>
11:00 30m	<b>COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"</b>		
11:30 10m	<b>No-Load Characteristic Computation for Wound Field Synchronous Propulsion Motors</b>	Federica Graffeo; Silvio Vaschetto; Alberto Tenconi; Andrea Cavagnino	<a href="https://edas.info/M1570887115">1570887115</a>
11:40			
13:00 30m	<b>CLOSING SESSION - CIRCOLO UFFICIALI "Adriano FOSCARI"</b>	Castello 2168 – 30122 VENEZIA	
13:30 1h 30m	<b>LUNCH - CIRCOLO UFFICIALI "Adriano FOSCARI"</b>	Castello 2168 – 30122 VENEZIA	
15:00			

TOTAL LENGTH: 6h 00m