

ESARS-ITEC 2023 - 28/03/2023

Mar 28, 2023

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

TOTAL LENGTH: 2h 00m

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

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

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
MORNING SESSION 29/3/2023 "Aircraft"			
11:00 15m	Fuel Cell/Battery Hybrid Electric System for UAV	Jenica Ileana Corcau; Liviu Dinca	https://edas.info/M1570871553
11:15 15m	Design Approach of an Integrated SiC-Inverter for an Electric Aircraft	Dirk Fischer; Robert Rohn; Regine Mallwitz	https://edas.info/M1570873547
11:30 15m	Simplified Modelling and Control of Dual Active Bridge Converter for Future Electrified Aerospace Application	Xingyu Yan; Yiren Zhu; Zhenyu Wang; Tao Yang; Serhiy Bozhko; Patrick Wheeler	https://edas.info/M1570884216
11:45 15m	Ground-Based Power Supply System to Operate Hybrid-Electric Aircraft for Future Regional Airports	Markus Meindl; Martin März; Kai Johannes Weber	https://edas.info/M1570873569
12:00 15m	Implementation of Alternative Aircraft Evaluation Techniques to Assess Electrical Aircraft Performance	Roland Furmanek; Roman Skrasek; Bartosz Filochowski; Sébastien Gonczaronek	https://edas.info/M1570873879
12:15 15m	Optimal Design of a Three-Phase 540V/70kVA SiC Inverter for Aircraft Applications	Tran Duc Hoan; Bernardo Cougo; Gilles Segond; Hans Hoffmann Sathler	https://edas.info/M1570876046
12:30 △1h 00m 13:30	WORKSHOP Water e-Mobility	Vittorio Bucci	

2h 00m

Ex Sala TV - Circolo Ufficiali

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
MORNING 29/3/2023 SPECIAL SESSION "Battery management using estimated state of health, state of power, and state of safety" and ETUT Project			
11:00 15m	Dynamic Behavior of an Aged Lithium Phosphate-Iron Battery	Diego Iannuzzi; Babak Fahimi; Ciro Napolitano	https://edas.info/M1570872048
11:15 15m	Parameters Identification for Open Circuit Voltage Characteristic in Battery Models	Elisa Mostacciolo; Luigi Iannelli; Domenico Natella; Silvio Baccari; Francesco Vasca	https://edas.info/M1570873098
11:30 15m	Enhanced Online Identification of Battery Models Exploiting Data Richness	Chengxi Cai; Daniel J. Auger; Suresh Perinpanayagam	https://edas.info/M1570878491
11:45 15m	A Novel Root-Finding Algorithm to Solve the Pseudo-2D Model of a Lithium-Ion Battery	Don Toshan Gayan De Silva Wickramanayake; Mehrnaz Javadipour; Kamyar Mehran	https://edas.info/M1570880895
12:00 15m	Capacity Fade Estimation of LiFePo Cells Based on Improved Impulse Response Method: Experimental results	Pagliarini; Pasquale Cennamo; Filippo Orsini; Luigi Petrazzuoli; Marcello Spinelli; Paola Satariano	https://edas.info/M1570878741
12:15 15m	Cycle Aging Effect on the Open Circuit Voltage of Lithium-Ion Battery	Simone Barcellona; Lorenzo Codecasa; Silvia Colnago; Luigi Piegari	https://edas.info/M1570878711
12:30 15m	Enhanced Control of PV CHB Inverter With Embedded BESS	Monica De Riso; Pierluigi Guerriero; Marino Coppola; Santolo Daliento; Andrea Del Pizzo	https://edas.info/M1570887593
12:45 15m	An Integrated Approach to Lithium-Ion Battery Cell Management Through Accurate Voltage Measurement and Cell Balancing	Regis Nibaruta; Prasanth Venugopal; Gert Rietveld; Volodymyr Havryliuk; Thiago Batista Soeiro	https://edas.info/M1570890797
13:00 15m	A Hardware-Based Bidirectional Power Flow Decoupling Approach for Multi-Active-Bridge Converters	Peyman Koochi; Alan J Watson; Thiago Batista Soeiro; Jon Clare; Marco Rivera; Prasanth Venugopal; Patrick Wheeler	https://edas.info/M1570891499
13:15 △30m	ETUT Project Meeting		
13:45			
13:00 1h 30m	LUNCH - CIRCOLO UFFICIALI "Adriano FOSCARI"	Castello 2168 – 30122 VENEZIA	
14:30 3h 00m	AFTERNOON 29/3/2023		
	Aula 1 - Palazzo San Martino		

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

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
AFTERNOON SESSION 29/3/2023 "Aircraft"			
14:30 15m	Power Distribution and Propulsion System for an All-Electric Regional Aircraft	Janine Ebersberger; Ralf Johannes Keuter; Bernd Ponick; Axel Mertens	https://edas.info/M1570877699
14:45 15m	Driving Power Supply for Ultrasound Piezoelectric Transducers	Modar Jomaa; François Costa; Dejan Vasic; Pierre-Etienne Lévy; Marwan Ali	https://edas.info/M1570878533
15:00 15m	Hydrogen-Fuelled Fixed-Wing RPAS. an Approach to Design and Size the Electrical Propulsion System	Cirilo Delgado Asencio; José Manuel Andújar Márquez; Francisca Segura Manzano; Juan Mora Macías	https://edas.info/M1570878980
15:15 15m	Development of Quadrotor Hovering System With Permanent Magnet Synchronous Motors	Joon Sung Park; Hyoung-Kyu Yang; Pooreum Jang; Yong-Su Noh; Byong Jo Hyon	https://edas.info/M1570878701
15:30 15m	An Advanced Power Generation Architecture for More-Electric Aircraft Applications	Ge Bai; Tao Yang; Seang Shen Yeoh; Xiaoyu Lang; Serhiy Bozhko; Patrick Wheeler	https://edas.info/M1570879003
15:45 15m	Optimised Architecture Design for an MEA Power Distribution System Considering Load Profile and Fault-Tolerance	Xin Wang; Jason Atkin; Seang Shen Yeoh; Serhiy Bozhko	https://edas.info/M1570879021
16:00 30m	COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"		
16:30 15m	Design and Efficiency Measurement of a Sub-Unit for a 20kW DC-DC Multiphase Power Converter	Bastien Pasquet; Sébastien Vinnac; Jean-Marc Blaquiére; Thierry Meynard; Sébastien Sanchez	https://edas.info/M1570879219
16:45 15m	Overview on the Effects of Mission Profiles on Radiation Induced Failures in All-Electric Aircraft	Leon Fauth; Jens Friebe	https://edas.info/M1570879233
17:00 15m	Investigation of Electric Motors for All-Electric Aircraft With Different Material Combinations From an Environmental Perspective	Ralf Johannes Keuter	https://edas.info/M1570879236
17:15 15m	Brazilian Engineering Research Center for the Aerial Mobility of the Future	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	https://edas.info/M1570883080
17:30 15m	Inverter Emulator as Multi-Purpose Test System for Aerospace Electric Power Systems	Selimcan Deda; Oliver König; Gernot Pammer; Thomas Haidinger	https://edas.info/M1570884012
17:45 15m	Design and Verification of Aircraft Electrical Power System	Huseyin Sagirkaya	https://edas.info/M1570888349
18:00			
3h 00m	Ex Sala TV - Circolo Ufficiali		

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

17:30

18:00

TOTAL LENGTH: 9h 45m

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

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

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

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

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

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

TIME	NAME	DESCRIPTION	ADDITIONAL INFO
3h 00m	Ex Sala TV - Circolo Ufficiali		
AFTERNOON SESSION 30/3/2023 "Innovative solutions to increase energy efficiency in railways"			
14:30 15m	Investigation and Optimisation of Urban Rail Transit Lifecycle Energy Saving in Coordinating Section Running Time and Slope	Haoran Geng; Masafumi Miyatake	https://edas.info/M1570878930
14:45 15m	Diagnosis of Energy Consumption During Parking of Different Rail Vehicles and Evaluation of Energy Savings Solutions	André-Philippe Chamaret; Didier Frugier; Patrick Henry; Jérôme Deon; Luis Maria Alonso	https://edas.info/M1570884332
15:00 15m	Smart Hybrid Electric Railway Grids: A Comparative Study of Architectures	Hamed Jafari Kaleybar; Morris Brenna; Francesco Castelli-Dezza; Maria Stefania Carmeli	https://edas.info/M1570884340
15:15 15m	Sizing the Energy Source and Battery for Electrical Driven Railway Vehicles for Non-Electrified Lines	Shunsuke Jindo; Kana Matsunaga; Keiichiro Kondo	https://edas.info/M1570888837
15:30 15m	Two-Phase Interleaved DC-DC Converter With 3.3 kV SiC MOSFET Modules	Radek Sobieski; Rafal Miśkiewicz; Jacek Rabkowski; Rafal Kopacz	https://edas.info/M1570887837
↓15m			
16:00 30m	COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"		
16:30 1h 00m	WORKSHOP "Railway Efficiency"	Philippe Ladoux	
17:30			
↓1h 15m			
19:30 3h 30m	GALA DINNER -CIRCOLO UFFICIALI "Adriano FOSCARI"	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	KEYNOTE - Ing. Pierluigi Punter	"Future of Power Generation on board of cruise vessels" Biblioteca - Palazzo San Martino	
09:45 3h 15m	MORNING 31/3/2023 Biblioteca - Palazzo San Martino		
MORNING SESSION 31/3/2023 "Ship"			
09:45 15m	Average Modeling of DC-DC Converters for DC Shipboard Microgrids With Constant Power Loads	Fabio D'Agostino; Federico Silvestro; Fabrizio Sivori; Antonio Fidigatti; Enrico Ragaini	https://edas.info/M1570878761
10:00 15m	Resonant Controllers to Achieve Torsional Stability: A Ship Case Study	Lorenzo Bongini; Rosa Anna Mastromauro	https://edas.info/M1570887414
10:15 15m	A Case Study on High-Temperature Fuel Cells for Hybrid Electric Ship Propulsion	Flavio Balsamo; Clemente Capasso; Tommaso Coppola; Luca Micoli; Roberta Russo; Ottorino Veneri	https://edas.info/M1570879142
10:30 15m	Scaling of Hybrid Propulsion in Respect of Power, Energy and Redundancy	Jens Biebach; Michael Lorenz; Alfons Doerr; Alexander Oswald	https://edas.info/M1570879198
10:45 15m	Reliability Modelling of Marine Hybrid Power and Propulsion System Considering Operation Profile	Ziwen Wang; Siamak Karimi; Mehdi Zadeh; Markus Heimdal	https://edas.info/M1570879013
11:00 30m	COFFEE BREAK - Circolo Ufficiali "Adriano FOSCARI"		
11:30 15m	Study and Validation of a Contra-Rotating Dual Rotor Switched Reluctance Machine in Marine Propulsion	Ruben De Croo; Thomas Van Lierde; Frederik De Belie	https://edas.info/M1570883202
11:45 15m	A Reduced Order Model for the Stable LC-Filter Design on Shipboard DC Microgrids	Andrea Alessia Tavagnutti; Daniele Bosich; Stefano Pastore; Giorgio Sulligoi	https://edas.info/M1570874719
12:00 15m	Water Transport Decarbonization: Preliminary Case Study in Venice	Alessandro Saldarini; Cristian Giovanni Colombo; Michela Longo; Morris Brenna; Seyedmahdi Miraftebzadeh; Wahiba Yaici	https://edas.info/M1570878696
12:15 15m	Impact of Fuel Switch to Methanol on the Design of an All Electric Cruise Ship	Serena Bertagna; Vittorio Buccì; Alberto Marinò; Giorgio Sulligoi; Andrea Vicenzutti	https://edas.info/M1570878746
12:30 15m	Review on EMC Standards (9-500 kHz) for DC Microgrids to Support Arc Fault Detection & Power Line Communication and Its Potential Application in Hybrid Ships	Da Wang; Dominique Weyen; Paul Van Tichelen	https://edas.info/M1570888813
12:45 15m	Minimization of Dc-Link Capacitance in Voltage Source Rectifiers Through Nonlinear Controls Based on Lyapunov's Direct Method	Mark Vygoder; Robert M Cuzner; Brian S.R. Armstrong	https://edas.info/M1570880110

13:00

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

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

TOTAL LENGTH: 6h 00m