

paper	paper title	presentation type	Session	When	Time
138	Development of Integrated Functions in GaN	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
142	Energetic properties of the fast charging and driving of an electric vehi	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
180	TRACKSIM: A Multi-Level Simulation Framework for Near-Life Batt	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
189	Cost and Efficiency Optimization for a Reconfigurable E-Bike Battery	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
212	New design methodology for the calculation of the feed sections into w	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
245	Comparative Evaluation of Two-Level Inverters and a Disruptive Mult	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
253	Control of Battery-Integrated MMCs with NLM using Distributed Con	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
312	A Feedback-Enhanced Approach to Modeling Semiconductor Ageing i	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
335	Power Hardware and Driver-in-the-Loop for Battery Testing applied to	Dialogue	DS1a - Topic 1: Electric Road Vehicles	Tuesday, 1 April	11:40
123	Transition Control from Dual to Single Motor to Prevent Speed Reduct	Dialogue	DS1b - Topic 1: Electric Aircraft, Aerospace and Drones	Tuesday, 1 April	11:40
136	Analysis, Modulation and Control of a Ground Power Unit for Aircraft	Dialogue	DS1b - Topic 1: Electric Aircraft, Aerospace and Drones	Tuesday, 1 April	11:40

222	Comprehensive Analysis of High Bandwidth Converters Based on SiC	Dialogue	DS1b - Topic 1: Electric Aircraft, Aerospace and Drones	Tuesday, 1 April	11:40
232	Battery Swapping implementation on electric sea taxis; the case of Ion	Dialogue	DS1c - Topic 1: Electric Ships	Tuesday, 1 April	11:40
47	Fuel Cell Design Considerations and Component Optimisation for Isolated	Dialogue	DS1d - Topic 1: Electric Off-Road and Non-Conventional Vehicles	Tuesday, 1 April	11:40
156	Modeling of the steady-state ac current fluctuation in two-stage electric	Dialogue	DS1e - Topic 1: Power-Electronic Devices and Integration for Electromobility	Tuesday, 1 April	11:40
77	SiC Solid-state Power Contactors SSPC's in comparison to E-Fuses and	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
93	Handling Ground Faults in Meshed MVDC Grids by Fast Redistribution	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
120	A Multi-Agent Reinforcement Learning-based Secondary Control for V	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
152	Protection design for pole-to-pole faults in DC networks (Updated vers	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
167	Enhanced Current-limiting Strategy of Grid-forming Converter consid	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
188	A review of grid code requirements for an interoperability MVAC/MV	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
194	Comprehensive model of a synchronous generator for single-node stud	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
240	Modular Clamping Circuit for High Speed Solid State Circuit Breakers	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40

241	Ultra Fast Bidirectional SiC-Solid-State Circuit Breaker for 800V / 400	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
268	Three port converter control with automatic mode transition for interco	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
273	Enhancing Optimal Power Flow Feasibility: A Novel Comparative Stud	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
316	Development of an Integrated Transmission-Distribution Simulation M	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
317	Distribution Network Reconfiguration Including OLTC Limits and Var	Dialogue	DS1f - Topic 2: Smart Grids, DC Networks and Components, Hybrid AC/DC Networks	Tuesday, 1 April	11:40
291	Energy-Based Model Representation for Design and Optimization of P	Dialogue	DS1g - Topic 2: Renewable and New Energy Sources	Tuesday, 1 April	11:40
250	A Current Source Buck – Boost Inverter for Active and Reactive Powe	Dialogue	DS1h - Topic 2: Power Electronics and Devices for Grid Applications	Tuesday, 1 April	11:40
78	Impact of Operating Load Limits on the Control Strategy and Performa	Dialogue	DS1j - Topic 2: Green Hydrogen and “X”: Electrolyzers and Plants	Tuesday, 1 April	11:40
34	Measuring the Impact of Gate-Stress on a GaN-HEMT's Output Charac	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
40	Characterization of an Integrated GaN Driver for Power Switching App	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
122	Losses Evaluation on Parallel Diodes Using a Double Pulse Test Circu	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
126	Parasitic Capacitances Effect on Transient Current Sharing in Parallel	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40

169	Using SiC JBS diode as voltage clamping in SSCB application: performance	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
176	Maximize advantages in hard and soft-switching applications with opti	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
183	High temperature characterizations of a monolithic 900 V GaN power	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
261	SiC MOSFET turn-off overvoltage measurement	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
309	Static vs. Dynamic Characterization of p-GaN HEMTs: Discrepancies	Dialogue	DS1k - Topic 7: Active Devices and Components	Tuesday, 1 April	11:40
109	A method for detecting the start of delamination at the corners of solde	Dialogue	DS11 - Topic 7: Integration and Packaging	Tuesday, 1 April	11:40
190	Effects of Removing Bottom-side Copper in Baseplate-less Power Mod	Dialogue	DS11 - Topic 7: Integration and Packaging	Tuesday, 1 April	11:40
121	Improving thermal management of SiC MOSFET through cold plates a	Dialogue	DS1m - Topic 7: Cooling Circuits and Thermal Management	Tuesday, 1 April	11:40
251	A Real-time Condition Monitoring Technique for SiC MOSFET Gate	Dialogue	DS1n - Topic 7: Reliability and Life-Cycle Assessment	Tuesday, 1 April	11:40
12	Reconfigurable single-layer air coil inductor with bistable compliant w	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
18	Integrating PV Systems with Non-Standard Grid Voltages: The Need f	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
95	Mission-Profile Based Reliability Frameworkfor Medium-Frequency T	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40

159	Development of High-Frequency Molded Transformer for SST with Si	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
162	Overview, Comparison and Extension of Concepts for Current-Contro	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
173	2D FEM Modeling Comparison of Multi-Winding Magnetic Couplers	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
256	Innovative Flyback Transformer Design : Enhancing Efficiency and Re	Dialogue	DS1o - Topic 8: Magnetic Components – Inductors and Transformers	Tuesday, 1 April	11:40
8	New DC-Link bus bar and capacitors integration for 800V inverter	Dialogue	DS1p - Topic 8: Dielectric and Interconnecting Components – Capacitors, Insulators, Cables, PCBs, Bus Bars	Tuesday, 1 April	11:40
333	A high voltage, high current transmission-line-pulse testbench for the re	Dialogue	DS1p - Topic 8: Dielectric and Interconnecting Components – Capacitors, Insulators, Cables, PCBs, Bus Bars	Tuesday, 1 April	11:40
164	Voltage-Controlled SoC Estimation in Lithium-Ion Batteries: A Compa	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10
249	A Comparative Study of Genetic Algorithm and Particle Swarm Optim	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10
255	Improved Energy Management Strategy for Minimizing Capacitors Sto	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10
285	Modeling and Evaluating GaN HEMTs for Efficient Multicell Battery	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10
298	Development of Energy Management Strategies for a MG with Distrib	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10
342	Energy Management in Hybrid Energy Storage Systems for Electric Ve	Dialogue	DS2a - Topic 3: Energy Storage and Management Systems	Wednesday, 2 April	11:10

69	A high-performance AC excitation and measuring system for on-line es	Dialogue	DS2b - Topic 3: Battery Aging, Reliability, and Safety	Wednesday, 2 April	11:10
248	Comparison of the diffusion overvoltage in Graphite/LFP 18650 power	Dialogue	DS2b - Topic 3: Battery Aging, Reliability, and Safety	Wednesday, 2 April	11:10
331	Battery pack thermal management using phase change materials for sm	Dialogue	DS2b - Topic 3: Battery Aging, Reliability, and Safety	Wednesday, 2 April	11:10
38	Study of 3-Phase Embedded Charger for Vehicle-to-Home (V2H) Und	Dialogue	DS2c - Topic 3: Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	11:10
111	Compact Interoperable DC Charging Station Enabling Smart Charging	Dialogue	DS2c - Topic 3: Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	11:10
160	Design and Evaluation of Single-Active Bridge Configurations for Opt	Dialogue	DS2c - Topic 3: Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	11:10
281	Design and Analysis of a Three-Phase Single-Stage AC-DC Converter	Dialogue	DS2c - Topic 3: Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	11:10
130	Development of a 1MW Multi-Channel Fast Charging Station based on	Dialogue	DS2d - Topic 3: Energy Storage for Grid Applications including Industrial Solutions	Wednesday, 2 April	11:10
139	Information System Architecture forSupervision and Control of Railwa	Dialogue	DS2d - Topic 3: Energy Storage for Grid Applications including Industrial Solutions	Wednesday, 2 April	11:10
128	Predictive maintenance and control tool for hydrogen-energy systems i	Dialogue	DS2e - Topic 3: Fuel Cells and Stacks, Electrolyzer Cells and Stacks and Associated Power Electronics	Wednesday, 2 April	11:10
16	Enhanced Optimization of Power Modules Considering Static and Dyn	Dialogue	DS2f - Topic 4: Digital Twins and Real-Time Simulation	Wednesday, 2 April	11:10
105	Harmony Search-Assisted Perturb-and-Observe MPPT Algorithm for I	Dialogue	DS2g - Topic 4: Use of AI in Power-Electronics Applications	Wednesday, 2 April	11:10

264	LTO BATTERY USEFUL LIFE PREDICTION FOR ALWAYS ON E	Dialogue	DS2g - Topic 4: Use of AI in Power-Electronics Applications	Wednesday, 2 April	11:10
81	Grey Box Identification of SiC MOSFET Modules in Short Circuit	Dialogue	DS2h - Topic 4: Data-Driven and Physics-Based Techniques	Wednesday, 2 April	11:10
137	Laboratory Measurements for Machine Learning-based Modelling of L	Dialogue	DS2i - Topic 4: Machine Learning	Wednesday, 2 April	11:10
9	Self-Bias Circuit for Boost Derived Converters	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
17	Operation modes and design consideration for MMC with unipolar cur	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
33	A novel Hybrid Inverter Drive capable of bypassing the voltage source	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
37	Modular multilevel converter based on unipolar-current full-bridge sub	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
46	A comparison between SVPWM and DC-link mid-point voltage injecti	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
83	Data-Driven RUL Estimation for DC-Link Capacitor in Ultra-Fast EV	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
103	Model Predictive Control Using Multi Virtual Voltage Vectors for a T	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
114	A Cost-Effective Three Level Shared Leg Flying Capacitor Converter	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
125	A new family of class F (EF) inverter with improved design flexibility	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10

127	Methodology for pre-sizing an MMC by optimization for an aeronautic	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
132	Simple nine-level inverter with 10 switches and a floating capacitor	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
134	Performance Evaluation of Three-Phase, Two-Level Medium Voltage	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
165	Three-phase Active-Split source inverter with step-up/step-down DC b	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
171	Efficiency and Cost Comparison of GaN/Si and SiC/Si Hybrid ANPC T	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
208	Steady-State Analysis and Control of Active Current Injection Based T	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
218	T-type Inverter as a Power-Pulsation Buffer for a PMSM with Large L	Dialogue	DS2j - Topic 9: AC/DC and DC/AC Converter Topologies	Wednesday, 2 April	11:10
55	Isolated step-down DC-DC converter based-on push-pull topology with	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
64	Advancement of the SI-SIDO Boost-Buck-Boost Converter with contin	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
129	Analysis of a high gain step-up converter 48V/1kV for piezoelectric dr	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
133	Study of a 6-Leg Floating Interleaved Boost Converter with Coupled In	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
148	DC-DC converter with low components voltage stress and reduced con	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10

172	Design analysis of MMC-Autotransformer forHVDC interconnection	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
186	Design Guidelines for DAB incorporating a Multilevel Bridge with Qu	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
242	Single Active Bridge DC/DC Converter as Auxiliary Power Supply for	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
257	From Space to Industrial Applications: the Latching Current Limiter as	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
278	Reconfigurable Interleaved LLC Resonant Converter for Ultrawide Ou	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
352	Interleaved LLC Resonant Converter using PFM and PSM for Ultra-wi	Dialogue	DS2k - Topic 9: DC/DC Converter Topologies	Wednesday, 2 April	11:10
192	Generalized algorithm for determining the control functions of an AC v	Dialogue	DS21 - Topic 9: AC-Grid Connected Converter Topologies	Wednesday, 2 April	11:10
1	Two copper layer Insulated Metal Substrate PCB potential using Wide	Dialogue	DS2m - Topic 10: Converter Design and Optimisation	Wednesday, 2 April	11:10
157	Multi-objective Optimization based Design of 3-L Inverters Considerin	Dialogue	DS2m - Topic 10: Converter Design and Optimisation	Wednesday, 2 April	11:10
206	Multi-Objective PSO for the Sizing of a 12-Pulse Diode Rectifier : A	Dialogue	DS2m - Topic 10: Converter Design and Optimisation	Wednesday, 2 April	11:10
262	Zero Current Modulation Control Strategy for Dual Active Bridge Dyn	Dialogue	DS2n - Topic 10: Converter Modelling and Low-level Control, including Gate-Drives	Wednesday, 2 April	11:10
31	Assessment of Supraharmonic Emissions of Parallel Grid Connected In	Dialogue	DS2o - Topic 10: EMI/EMC in Power Electronics including HF Phenomena	Wednesday, 2 April	11:10

181	An Improved Balanced Cascaded Buck-Boost Converter Topology for	Dialogue	DS2o - Topic 10: EMI/EMC in Power Electronics including HF Phenomena	Wednesday, 2 April	11:10
269	Impact of PWM Modulation Strategies on Bearing Currents in Electric	Dialogue	DS2o - Topic 10: EMI/EMC in Power Electronics including HF Phenomena	Wednesday, 2 April	11:10
293	Interference propagation in two stage PV inverters	Dialogue	DS2o - Topic 10: EMI/EMC in Power Electronics including HF Phenomena	Wednesday, 2 April	11:10
311	Optimizing Thermal Design of 75kW LLC Resonant Converters: Level	Dialogue	DS2p - Topic 10: Thermal Optimization and Reliability Considerations	Wednesday, 2 April	11:10
87	Three-Phase PFC Rectifier with only two AC-side Transistors P2S6	Dialogue	DS3a - Topic 5: Design of Sustainable and/or Frugal Power Converters	Thursday, 3 April	11:10
237	CO2 Footprint of DC Solid State Transformer for Linear PV Power Pla	Dialogue	DS3a - Topic 5: Design of Sustainable and/or Frugal Power Converters	Thursday, 3 April	11:10
288	Parametrized Manufacture Life Cycle Inventory of IGBT Power Modu	Dialogue	DS3b - Topic 5: Dynamic Life Cycle Analysis and Assessment	Thursday, 3 April	11:10
22	New Temperature-Insensitive Aging Indicator of bond-wire contacts fo	Dialogue	DS3c - Topic 5: State of Health: Online Monitoring, Failure Diagnosis and Prognosis, Remaining Useful Life Prediction	Thursday, 3 April	11:10
67	DC Series Arc Fault Detection with LCL-Type Boost Converter	Dialogue	DS3c - Topic 5: State of Health: Online Monitoring, Failure Diagnosis and Prognosis, Remaining Useful Life Prediction	Thursday, 3 April	11:10
177	State-of-Health (SOH) and State-of-Charge (SOC) Estimation for Lithi	Dialogue	DS3c - Topic 5: State of Health: Online Monitoring, Failure Diagnosis and Prognosis, Remaining Useful Life Prediction	Thursday, 3 April	11:10
193	Live Monitoring of the Blocking Behaviour of an IGBT Module in the	Dialogue	DS3c - Topic 5: State of Health: Online Monitoring, Failure Diagnosis and Prognosis, Remaining Useful Life Prediction	Thursday, 3 April	11:10
62	Novel Control Methodologies of Back-to-Back B6 Bridges for an App	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10

72	Small-Signal Analysis of Grid-Forming Vector Current Control	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
101	Carrier Synchronization Method using High-Speed Sampling for Parallel	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
143	Ms	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
198	Backstepping Controller Design with Inherent Current Limitation for a	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
215	A bounded controller for a class of bidirectional boost DC/DC converters	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
294	Active Damping Strategies for Mitigating Resonances in Offshore Wind	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
301	Passivity Analysis in Power Electronic Converters with SHE Modulation	Dialogue	DS3d - Topic 11: Modulation and Control Methods	Thursday, 3 April	11:10
30	Control-to-Output Transfer Function Measurement of a Boost Converter	Dialogue	DS3e - Topic 11: Estimation, Identification and Optimisation Methods	Thursday, 3 April	11:10
299	Voltage generation for Sawyer-Tower Coss loss measurement based on	Dialogue	DS3e - Topic 11: Estimation, Identification and Optimisation Methods	Thursday, 3 April	11:10
21	Comparison of the electrical and thermal method for determining the p	Dialogue	DS3f - Topic 11: Measurement Techniques, Sensors and State Observers	Thursday, 3 April	11:10
116	Quantifying Incomplete Zero-Voltage Switching Losses Using Equivalent	Dialogue	DS3f - Topic 11: Measurement Techniques, Sensors and State Observers	Thursday, 3 April	11:10
297	Current measurement based on inductive pickup coil with increased iso	Dialogue	DS3f - Topic 11: Measurement Techniques, Sensors and State Observers	Thursday, 3 April	11:10

100	Design of a Hybrid ANPC Three Level Inverter for High Speed Bearing	Dialogue	DS3g - Topic 12: Electrical Machines and Actuators	Thursday, 3 April	11:10
102	Common Mode Voltage Behavior of a 3 Level ANPC Inverter on Vehicle	Dialogue	DS3g - Topic 12: Electrical Machines and Actuators	Thursday, 3 April	11:10
191	Loss Investigation of an Axial Flux PMSM controlled by a Modular Motor	Dialogue	DS3g - Topic 12: Electrical Machines and Actuators	Thursday, 3 April	11:10
229	Review of the Structure of the Multiport Energy Router in the Specific	Dialogue	DS3h - Topic 12: System Design and Optimization of Adjustable-Speed Drives	Thursday, 3 April	11:10
24	Practical Harmonic Current Injection Method for Torque Ripple Suppression	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
92	Adaptive Control of an Active Magnetic Bearing	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
243	Online Inductance Identification of Permanent Magnet Synchronous Motor	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
306	Modelling and Post-Fault Current Control Strategy for Multi-Three-Phase	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
326	Performance analysis of PMSM servo-drive with state feedback and hybrid	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
337	Sensorless Position Control of Synchronous Reluctance Motor with Reference	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
348	MRAS-based sensorless field oriented controlled axial flux permanent magnet	Dialogue	DS3i - Topic 12: Control of Electric Drives	Thursday, 3 April	11:10
150	A Compact Dual-Band Wireless Power Transfer System based on circuit	Dialogue	DS3j - Topic 13: Contactless (Wireless) Power Supply	Thursday, 3 April	11:10

233	A Superconducting Half-Wave Rectifier: Principle and Experiment	Dialogue	DS3j - Topic 13: Contactless (Wireless) Power Supply	Thursday, 3 April	11:10
252	Comparison of Resonant Converters for High-Power Inductive Wireless	Dialogue	DS3j - Topic 13: Contactless (Wireless) Power Supply	Thursday, 3 April	11:10
324	PWM-Less Utility Frequency Output Capacitive Wireless Power Trans	Dialogue	DS3j - Topic 13: Contactless (Wireless) Power Supply	Thursday, 3 April	11:10
276	Modular High Current DC Power Supplyfor Plasma Torch	Dialogue	DS3k - Topic 13: Industry-Specific Applications (Cement, Steel, Paper, Textile, Mining, etc.)	Thursday, 3 April	11:10
260	Minimization of the circulating currents of an interleaved converter for	Dialogue	DS3l - Topic 13: Applications in Physics Research and Related Areas	Thursday, 3 April	11:10
280	Inversion-based Control Simplifications for a Cycling-mode Power Co	Dialogue	DS3l - Topic 13: Applications in Physics Research and Related Areas	Thursday, 3 April	11:10
5	Advanced DC Voltage Control Technique for Converters: Achieving S	Lecture	LS1a - Topic 9 - AC/DC and DC/AC Converter Topologies (I)	Tuesday, 1 April	10:30
25	Multiple generator's stator windings as voltage sources for a multilevel	Lecture	LS1a - Topic 9 - AC/DC and DC/AC Converter Topologies (I)	Tuesday, 1 April	10:50
174	An AC fault ride-through control of modular multilevel converters for	Lecture	LS1a - Topic 9 - AC/DC and DC/AC Converter Topologies (I)	Tuesday, 1 April	11:10
52	Analysis of Energy Storage Solutions for Ship Maneuvering in Ports	Lecture	LS1b - Topic 1 - Electromobility (I)	Tuesday, 1 April	10:30
131	Impedance measurement methods for assessing the performance of Fuel	Lecture	LS1b - Topic 1 - Electromobility (I)	Tuesday, 1 April	10:50
140	Analysis of Aged Power Modules considering the Loss Calculation of	Lecture	LS1b - Topic 1 - Electromobility (I)	Tuesday, 1 April	11:10

146	High-Power 4500 V 5000 A Press Pack IGBTs for HVDC Solid-State	Lecture	LS1c - Topic 2 - Smart grids and renewable energy (I)	Tuesday, 1 April	10:30
41	New Multilevel Converter System for Electric Arc Furnace Power Sup	Lecture	LS1c - Topic 2 - Smart grids and renewable energy (I)	Tuesday, 1 April	10:50
322	Containerized AC/DC Converter Station as a Building Block for Medium	Lecture	LS1c - Topic 2 - Smart grids and renewable energy (I)	Tuesday, 1 April	11:10
154	400 V SiC MOSFET empowering three-level topologies for highly effici	Lecture	LS1d - Topic 7 - Active devices	Tuesday, 1 April	10:30
323	Investigation on the Short-Circuit Behavior of HV SiC-MOSFETs in Q	Lecture	LS1d - Topic 7 - Active devices	Tuesday, 1 April	10:50
53	Silicon IGBT modules with voltage slopes higher than SiC modules	Lecture	LS1d - Topic 7 - Active devices	Tuesday, 1 April	11:10
56	Design Optimization of Integrated CM/DM Inductors for Power Drive	Lecture	LS1e - Topic 8 - Magnetic Components – Inductors and Transformers (I)	Tuesday, 1 April	10:30
170	Current Transformer-Based Power Supply for Pulse Encoders on Moto	Lecture	LS1e - Topic 8 - Magnetic Components – Inductors and Transformers (I)	Tuesday, 1 April	10:50
182	Investigating the Impact of Alignment Angle Between Copper Turns at	Lecture	LS1e - Topic 8 - Magnetic Components – Inductors and Transformers (I)	Tuesday, 1 April	11:10
185	Investigations on Phase-Modular PFC with Integrated DC-link Energy	Lecture	LS2a - Topic 9 - AC/DC and DC/AC Converter Topologies (II)	Tuesday, 1 April	15:40
214	Construction and Application of a Five-Level Inverter for Maximum P	Lecture	LS2a - Topic 9 - AC/DC and DC/AC Converter Topologies (II)	Tuesday, 1 April	16:00
277	Model Predictive Current Control for G2V/V2G Bidirectional Operati	Lecture	LS2a - Topic 9 - AC/DC and DC/AC Converter Topologies (II)	Tuesday, 1 April	16:20

6	Vehicle-Driven Operation of an Adaptive IPT System with Tolerance t	Lecture	LS2b - Topic 1 - Electromobility (II)	Tuesday, 1 April	15:40
166	Design Considerations and Validation of a GaN-Based Cryogenic Pow	Lecture	LS2b - Topic 1 - Electromobility (II)	Tuesday, 1 April	16:00
175	Comparative Stability Study of a Dual Active Bridge-Based Battery Ch	Lecture	LS2b - Topic 1 - Electromobility (II)	Tuesday, 1 April	16:20
27	Real-Time Power Loss Optimized Operationof a Solid State Transform	Lecture	LS2c - Topic 2 - Smart grids and renewable energy (II)	Tuesday, 1 April	15:40
168	Off-Grid Wind Energy Conversion System with Supercapacitor-Assiste	Lecture	LS2c - Topic 2 - Smart grids and renewable energy (II)	Tuesday, 1 April	16:00
332	Application of Jellyfish Search Algorithm? for Reactive Power Plannin	Lecture	LS2c - Topic 2 - Smart grids and renewable energy (II)	Tuesday, 1 April	16:20
59	Good practices to sort 650 V GaN die inside a PCB	Lecture	LS2d - Topic 7 - Reliability & Systems & Packaging	Tuesday, 1 April	15:40
29	Low inductance power module optimized for Flying Capacitor Topolog	Lecture	LS2d - Topic 7 - Reliability & Systems & Packaging	Tuesday, 1 April	16:00
63	Power Cycling Reliability of Paralleled IGBT Chips Heated with Cond	Lecture	LS2d - Topic 7 - Reliability & Systems & Packaging	Tuesday, 1 April	16:20
196	A Novel Optimization Method for Accurate AC resistance prediction o	Lecture	LS2e - Topic 8 - Magnetic Components – Inductors and Transformers (II)	Tuesday, 1 April	15:40
199	Inductive, Capacitive and Resistive Aspects Modeling of Planar Windi	Lecture	LS2e - Topic 8 - Magnetic Components – Inductors and Transformers (II)	Tuesday, 1 April	16:00
201	Modelling of Nanocrystalline Common-Mode Chokes with Custom Sh	Lecture	LS2e - Topic 8 - Magnetic Components – Inductors and Transformers (II)	Tuesday, 1 April	16:20

89	Comparative Soft Switching Analysis of Star-Star and Star-Delta Converter Topologies	Lecture	LS3a - Topic 9 - DC/DC Converter Topologies (I)	Wednesday, 2 April	10:00
65	Dual Coupled Inductor-Based Current-Fed Dual Active Bridge Converter	Lecture	LS3a - Topic 9 - DC/DC Converter Topologies (I)	Wednesday, 2 April	10:20
3	Embedded Spectroscopy: Potentialities and Constraints for Onboard Battery Monitoring	Lecture	LS3b - Topic 3 - Energy Storage and Management Systems	Wednesday, 2 April	10:00
178	A Versatile Prognostics Approach for Batteries and Hydrogen Storage	Lecture	LS3b - Topic 3 - Energy Storage and Management Systems	Wednesday, 2 April	10:20
209	A K-nearest Neighbours Inspired Direct MPC for SOC Balancing in Series Connected Batteries	Lecture	LS3b - Topic 3 - Energy Storage and Management Systems	Wednesday, 2 April	10:40
70	Developing a Model-in-the-Loop Testbench for Battery Management Systems	Lecture	LS3c - Topic 4 - Digitalization: The powerful fusion of AI and IoT for sustainability	Wednesday, 2 April	10:00
307	A Virtual Platform for Modular Smart Battery Testing and Prototyping	Lecture	LS3c - Topic 4 - Digitalization: The powerful fusion of AI and IoT for sustainability	Wednesday, 2 April	10:20
144	Ultrasound-based Condition Monitoring of Power Converters with Physics-Based Models	Lecture	LS3c - Topic 4 - Digitalization: The powerful fusion of AI and IoT for sustainability	Wednesday, 2 April	10:40
221	Analysis of optimization techniques applied to the DAB converter	Lecture	LS3d - Topic 10 - Design and optimisation	Wednesday, 2 April	10:00
235	Limitations of Current-Optimal Dual Active Bridge Modulation Strategies	Lecture	LS3d - Topic 10 - Design and optimisation	Wednesday, 2 April	10:20
254	Influence of the Mission Profile on the Selection of the Leakage Inductor	Lecture	LS3d - Topic 10 - Design and optimisation	Wednesday, 2 April	10:40
104	Analysis of Imbalance in Input-Series Output-Parallel Configuration of DC/DC Converters	Lecture	LS4a - Topic 9 - DC/DC Converter Topologies (II)	Wednesday, 2 April	15:40

325	Bidirectional Single Input Multiple Output Power Converters: Model and Design	Lecture	LS4a - Topic 9 - DC/DC Converter Topologies (II)	Wednesday, 2 April	16:00
42	Optimal techno-economic and environmental design of a renewable energy storage system	Lecture	LS4b - Topic 3 - Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	15:40
75	Control of a Modular Multiport Solid State Transformer for Flexible High Power Applications	Lecture	LS4b - Topic 3 - Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	16:00
320	A framework for smart charging strategies to further the adoption of electric vehicles	Lecture	LS4b - Topic 3 - Smart Charging, V2G, V2H, Charging Infrastructure and Grid Integration for Electromobility	Wednesday, 2 April	16:20
20	Volume reduction of magnetic components in DC/DC converters for fuel cell applications	Lecture	LS4c - Topic 8 - Magnetic Components – Inductors and Transformers (III)	Wednesday, 2 April	15:40
35	Correlation of measured and simulated inductances in laminated bus bars	Lecture	LS4c - Topic 8 - Magnetic Components – Inductors and Transformers (III)	Wednesday, 2 April	16:00
86	Enhanced SPICE Simulation of Inductive Component Behavior: Integration with Electromagnetic Simulation	Lecture	LS4c - Topic 8 - Magnetic Components – Inductors and Transformers (III)	Wednesday, 2 April	16:20
11	Geometry-Based Modeling of EMI of an LCL Filter in an AC-DC-AC Converter	Lecture	LS4d - Topic 10 - EMI	Wednesday, 2 April	15:40
60	Design Considerations and Investigations of an All-GaN High-Frequency Converter	Lecture	LS4d - Topic 10 - EMI	Wednesday, 2 April	16:00
68	Conducted Emission Mitigation for Solid-State Transformer using Modelling and Simulation	Lecture	LS4d - Topic 10 - EMI	Wednesday, 2 April	16:20
108	A High-Efficiency 5.5kW Battery Backup Unit for OCP Open Rack Voltage Regulation	Lecture	LS5a - Topic 9 - DC/DC Converter Topologies (III)	Thursday, 3 April	10:00
149	Design and Optimization of an Unbalanced-flux Transformer for 1 kW Power Conversion	Lecture	LS5a - Topic 9 - DC/DC Converter Topologies (III)	Thursday, 3 April	10:20

51	Battery Efficiency and Aging Measurements for Multilevel Battery End	Lecture	LS5b - Topic 3 - Battery Aging, Reliability, and Safety	Thursday, 3 April	10:00
96	Second life Li-ion batteries: Influence of aging on the techno-economic	Lecture	LS5b - Topic 3 - Battery Aging, Reliability, and Safety	Thursday, 3 April	10:20
161	Accelerated SOH Balancing in Lithium-ion Battery Packs Using Finite	Lecture	LS5b - Topic 3 - Battery Aging, Reliability, and Safety	Thursday, 3 April	10:40
246	Current Transformer Energy Harvesting using Current Sensor-Less Tra	Lecture	LS5c - Topic 5 - Sustainable and affordable power electronics	Thursday, 3 April	10:00
287	Parametric Life Cycle Assessment (LCA) of Power Modules	Lecture	LS5c - Topic 5 - Sustainable and affordable power electronics	Thursday, 3 April	10:20
113	Influence of Controller Parameters on Open-Circuit Fault Localization	Lecture	LS5c - Topic 5 - Sustainable and affordable power electronics	Thursday, 3 April	10:40
84	Drivetrain Loss Analysis for Various Switching Frequencies and Modu	Lecture	LS5d - Topic 12 - Control and electric drives	Thursday, 3 April	10:00
135	Sensorless IPMSM Drive Enhanced withParameter Identification Using	Lecture	LS5d - Topic 12 - Control and electric drives	Thursday, 3 April	10:20
119	Finite Control Set Model-Based Predictive Torque Control with Variab	Lecture	LS5d - Topic 12 - Control and electric drives	Thursday, 3 April	10:40
327	Grid Impedance Estimation with Large SCR Disturbances based on Gr	Lecture	LS5e - Topic 11 - Measurement, Supervision and Control for Power Converters	Thursday, 3 April	10:00
210	Magnetic field measurement for contactless current sensing in power el	Lecture	LS5e - Topic 11 - Measurement, Supervision and Control for Power Converters	Thursday, 3 April	10:20
205	Genetic algorithm-based control of a modular on-board charger for ele	Lecture	LS5e - Topic 11 - Measurement, Supervision and Control for Power Converters	Thursday, 3 April	10:40

263	Trapezoidal Wave Operation of High-power Non-isolated DC/DC Converter	Lecture	LS6a - Topic 9 - DC/DC Converter Topologies (IV)	Thursday, 3 April	15:10
286	Analysis of Leg-Open Fault of Three Phase Delta-Delta LLC Resonant Converter	Lecture	LS6a - Topic 9 - DC/DC Converter Topologies (IV)	Thursday, 3 April	15:30
300	Adaptative Resonant Tank of Bidirectional CLLC Resonant Converter	Lecture	LS6a - Topic 9 - DC/DC Converter Topologies (IV)	Thursday, 3 April	15:50
236	Impact of Model Depth on State of Charge Estimation in Second-Life Batteries	Lecture	LS6b - Topic 3 - Energy Storage and Management Systems	Thursday, 3 April	15:10
341	Improved estimation of battery equivalent resistance in bidirectional EV charging	Lecture	LS6b - Topic 3 - Energy Storage and Management Systems	Thursday, 3 April	15:30
197	Modeling the steady state response of the solid phase diffusion process in batteries	Lecture	LS6b - Topic 3 - Energy Storage and Management Systems	Thursday, 3 April	15:50
319	Allocation of Electric Vehicle Charging Stations in Urban Areas Using Reinforcement Learning	Lecture	LS6c - Topic 6 - Energy transition and societal change	Thursday, 3 April	15:10
339	Cities and Urban areas with Mobility based on Innovation and carbon neutrality	Lecture	LS6c - Topic 6 - Energy transition and societal change	Thursday, 3 April	15:30
346	Energy transition: an approach from scientific features to societal issues	Lecture	LS6c - Topic 6 - Energy transition and societal change	Thursday, 3 April	15:50
32	Design of an Integrated Magnetic Structure for Hybrid IPT Charger to Improve Efficiency	Lecture	LS6d - Topic 13 - Power Supplies and Industry-specific Power Electronics	Thursday, 3 April	15:10
283	A Grid-Connected Wireless Power Transfer System with LCC-Series Resonance	Lecture	LS6d - Topic 13 - Power Supplies and Industry-specific Power Electronics	Thursday, 3 April	15:30
230	Enhancing Accuracy of a 2MW Power Converter for High-Current Applications	Lecture	LS6d - Topic 13 - Power Supplies and Industry-specific Power Electronics	Thursday, 3 April	15:50

50	A interleaved Buck Boost converter for the battery energy managment	Dialogue	To be confirmed		
202	Overcurrent Protection and Safe Disconnect of High Voltage Circuits i	Dialogue	To be confirmed		
216	Gigahertz, Low-Cost Current Shunt with Retrofitting Capability for Ch	Dialogue	To be confirmed		
258	Measurement Techniques of Threshold Voltage Shift and Recovery in	Dialogue	To be confirmed		
259	Modelling of SiC and GaN Transistors Based on Pulsed S-Parameter M	Dialogue	To be confirmed		
267	Single-phase single-stage bidirectional PFC converter utilizing monolit	Dialogue	To be confirmed		
270	Design, Control and Loss Analysis of PV-based SiC-VSI Shunt Active	Dialogue	To be confirmed		
328	Small Hydropower Plants Integration to Microgrids: Overview, Contro	Dialogue	To be confirmed		
330	Optimized Estimation of Battery ParametersCapacity, Resistances and	Dialogue	To be confirmed		
338	Experimental Evaluation in the Design ofMRAS-Based Speed Estimato	Dialogue	To be confirmed		