transaction	manuscript title	manuscript area	Session type	Day	Session
	Multi-Port DC Microgrids: Online Parameter Adaptation in Model Predictive	SS Advanced Control of Power Converters in Distributed Generation			
WF-001449	Control	Systems	Oral	October 21	S2 09:15-11:45
	Improved Voltage Controlled Three Phase Voltage Source Inverter Using	SS Advanced Control of Power Converters in Distributed Generation			
WF-003352	Model Predictive Control for Standalone System	Systems	Oral	October 21	S2 09:15-11:45
	A Direct PI Controller without the Feedforward Terms for a VSC-based	SS Advanced Control of Power Converters in Distributed Generation			
WF-016047	Permanent Magnet Synchronous Generator for a Wind Turbine	Systems	Oral	October 21	S2 09:15-11:45
		SS Advanced Control of Power Converters in Distributed Generation			
WF-020761	PSO Based Harmonic Current Control in an Islanded Microgrid	Systems	Oral	October 21	S2 09:15-11:45
	A Droop Based-Control Strategy of Stand-Alone Single-Phase Converters for	SS Advanced Control of Power Converters in Distributed Generation			
WF-023132	Microgrid Applications	Systems	Oral	October 21	S2 09:15-11:45
	A Robust Fuzzy-based Control Technique for Grid-Connected Operation of	SS Advanced Control of Power Converters in Distributed Generation			
WF-023353	Sensor-Less PUC5 Inverter	Systems	Oral	October 21	S2 09:15-11:45
	Extended State Observer-Based Sliding-Mode Control for Floating Interleaved	SS Advanced Control of Power Converters in Distributed Generation			
WF-024767	Boost Converters	Systems	Oral	October 21	S2 09:15-11:45
	Frequency Regulation Strategy for Modular Two-Stage Grid-Connected	SS Advanced Control of Power Converters in Distributed Generation			
WF-030333	Photovoltaic Systems	Systems	Oral	October 21	S2 09:15-11:45
	Performance of Intelligent Control of an Autonomous Wind-Battery Based	SS Advanced Control of Power Converters in Distributed Generation			
WF-031194	Microgrid System	Systems	Oral	October 21	S2 09:15-11:45
	Power Device Lifetime Extension of dc-dc Interleaved Converters via Power	SS Advanced Control of Power Converters in Distributed Generation			
WF-035041	Routing	Systems	Oral	October 21	S2 09:15-11:45
	Tracking Design of Omnidirectional Drive Service Robot Using Hierarchical				
WF-004103	Adaptive Finite-Time Control	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	Convergence Time Estimation of Flexible Manipulator Control System with				
WF-009334	NTSM	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
WF-011223	Intelligent Motion Control of Ultrasonic Motor for an Ear Surgical Device	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	An Optimized Algorithm Based on Energy Efficiency for Gait Planning of				
WF-011843	Humanoid Robots	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	Adaptive Robust Position/thrust Tracking Control of Linear Induction Motor				
WF-012432	with Unknown End-effect	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	Development of an Autonomous Unmanned Surface Vehicle with Object				
WF-019259	Detection Using Deep Learning	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
WF-021792	A Novelty Crawling Robot with Hybrid Locomotion	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
WF-025682	Sliding mode SLAM for robust simultaneous localization and mapping	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	A Comparative Study of Two Approaches for UAV Emergency Landing Site				
WF-031356	Surface Type Estimation	SS Intelligent Control and Motion Planning in Robotic Systems	Oral		S2 09:15-11:45
WF-031364	Unconditionally Secure Control and Diagnostic Systems	SS Intelligent Control and Motion Planning in Robotic Systems	Oral	October 21	S2 09:15-11:45
	Generation of Multi-Level Disparity Map from Stereo Wide Angle Fovea Vision				
WF-007501	System	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45

	Visual Tracking Control for Stereo Vision Robot to the Target in		1		
WF-011363	Arbitrary Motion	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	Position and Attitude Control Method Using Disturbance Observer for Station				
WF-013234	Keeping in Underwater Vehicle	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	An Approach to Balance Sensing and Visual Servo Control based on Vision				
WF-013404	Space Observer for Biped Walking Robot	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	Performance analysis of an indoor localization and mapping system using 2D				
WF-013544	laser range finder sensor	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	High Backdrivability Control Based on Estimation of Shaft Torsion Using Load				
WF-017132	Side Angle Sensor	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
WF-024015	Temporal Analysis of CFO in Cooperative Task for Teamwork Assist	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
WF-024058	Bilateral Control of Two Finger Joints Using Functional Electrical Stimulation	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	Digital Map based Signal State Recognition of Far Traffic Lights with Low				
WF-033553	Brightness	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	Saliency Map for Wide Angle Fovea Vision Sensor	SS Intelligent Sensing Applications for Human Assistive Systems	Oral	October 21	S2 09:15-11:45
	Individual scans fusion in virtual knowledge base for navigation of mobile				
	robotic group with 3D TVS	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Application of fast frequency shift measurement method for INS in navigation				
WF-002267		SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Reduction of Angular Position Error of a Machine Vision System using the				
WF-007595	Digital Controller LM629	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Two-Parameter Pressure and Temperature Measuring Transducer Based on a				
	Voltage-Controlled MEMS-Elements	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
l	Implementing k-Nearest Neighbor Algorithm on Scanning Aperture for				
	Accuracy Improvement	SS Machine Vision, Control and Navigation	Oral		S2 09:15-11:45
	Intelligent Transportation Scheme for Autonomous Vehicle in Smart Campus	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Selection and Recognition of Statistically Defined Signals in Learning				
WF-030791		SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Determination of landmarks by mobile robot's vision system based on				
	detecting abrupt changes of echo signals parameters	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Fast And Accurate, Convolutional Neural Network Based Approach For Object				
	Detection From Uav	SS Machine Vision, Control and Navigation	Oral	October 21	S2 09:15-11:45
	Control Method of the Current Injection Bridge in Hybrid Active Front-End	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-001643	Matrix Converter	Control	Oral	October 21	S2 09:15-11:45
		SS Multi-Functional Grid Connected Converters: Design, Operation and			
	Selective Power Management Control for Hybrid Active Power Filter	Control	Oral	October 21	S2 09:15-11:45
	Reduced-Order Modelling Method of Grid-Connected Inverter With Long	SS Multi-Functional Grid Connected Converters: Design, Operation and	1 .		
WF-014141	Transmission Cable	Control	Oral	October 21	S2 09:15-11:45

	Dual Mode Controller Configuration of PV System for On-Grid and Off-Grid	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-017213	Application.	Control	Oral	October 21	S2 09:15-11:45
	Flexible Control Strategy for MMC to Comply with Voltage Support	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-031291	Requirement under Unbalanced Grid Faults	Control	Oral	October 21	S2 09:15-11:45
		SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-032077	Z-Source Inverter Based On CUK Converter	Control	Oral	October 21	S2 09:15-11:45
		SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-032085	A Novel SEPIC-Based Z-Source Inverter	Control	Oral	October 21	S2 09:15-11:45
	Selection of Impedance Network Parameters for Three-phase Voltage-fed	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-032158	Quasi-Z-source Photovoltaic Grid-connected Inverter with High Boost Capacity	Control	Oral	October 21	S2 09:15-11:45
	Zero-Sequence Injection Technique for Capacitor Lifetime Extension on the	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-034576	Low-Voltage Converter of a Smart Transformer	Control	Oral	October 21	S2 09:15-11:45
	DC-Series PV Collection DC/DC Converter with Wide Output Voltage	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-034673	Regulation Range	Control	Oral	October 21	S2 09:15-11:45
	Intelligent mechantronic system with decentralised control and multi-agent				
WF-003166	planning	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	TMk-anonymity: Perturbation-based Data Anonymization Method for				
1	Improving effectiveness of Secondary Use	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Failure Analysis and Characterization of Scheduling Jobs in Google Cluster	1 5 5			
WF-014958	,	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Information Retrieval from redlined Circuit Diagrams and its Model-Based	1 5 5			
1	Representation for automated Engineering	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Automatic Generation of a Simulation-based Digital Twin of an Industrial	1 5 5			
1	Process Plant	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	An Ambient Assisted Living Research Approach Targeting Real-Time	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Data-driven Approach to Support Experts in the Identification of Operational	1 5 5			
1	Statesin Industrial Process Plants	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Heterogeneity Reduction for Data Refining within Ontology Learning Process	TT Cloud Computing, Big Data, Industrial Informatics	Oral		S2 09:15-11:45
	Intelligent Detection of Driver Behavior Changes for Effective Coordination	1 5 5			
1	between Autonomous and Human Driven Vehicles	TT Cloud Computing, Big Data, Industrial Informatics	Oral	October 21	S2 09:15-11:45
	Bio-Inspired Multisensory Fusion for Autonomous Robots	TT Cloud Computing, Big Data, Industrial Informatics	Oral		S2 09:15-11:45
	Experimental Derivation of Thermal Parameters of the Stator-Winding Region	1 5/ 5 /			
1	in Thermal Analysis of PM Electrical Machines	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	Permanent Magnet Synchronous Machines Inter-Turn Short Circuit Fault				
1	Detection by Means of Model-Based Residual Analysis	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	Diagnostics and Prognostics for Multiple Induction Machines Using A Single				
1	Set of Current Transducers	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
1	Sensitivity of leakage inductance for detecting winding movements in				
1	transformers	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45

	Experimental Verification of a Passively Cooled Large Air-Gap 6/8-Flux-		1		
1	Switching Permanent Magnet Machine Including Manufacturing	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	Novel Toroidal Winding for Efficiency Improvement of a Line-Start Induction				
WF-015202	, ,	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	Determination of Transient Eddy Current Losses in Induction Motors with				
WF-012971	High Torque Dynamics	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	Comparison of Magnetic Field Distribution in Induction Machines with				
WF-021067	Different Types of Combined Star-Delta Stator Windings	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
WF-000027	External-Rotor Switched Reluctance Motor for Direct-Drive Home Appliances	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
WF-029734	A Novel Flux Switching Magnetic Gear for High Speed Motor System	TT Electrical Machines and Industrial Drives	Oral	October 21	S2 09:15-11:45
	A Single-stage Integrated Charger for Electric Vehicles (EVs) and Plug-in				
WF-005495	Electric Vehicles (PEVs) Incorporating Induction Motor Drive	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Comparative Stability Analysis of Several Single-Phase Grid-Connected				
WF-029793	Inverters with Harmonic Compensation	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Performance Evaluation of A Non-Isolated Three-Port Converter for PV-				
WF-003298	Battery Hybrid Energy System	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Coupled Inductor Based Hybrid DC Circuit Breaker Topologies for DC Grid				
WF-021393	Application	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
-	Control of Grid-Tied Inverter with L Filter in Weak Grid Considering Grid				
WF-019941	Impedance and Harmonics	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Fault-Tolerant PMSG Direct-Drive Wind Turbines, using Vector Control				
WF-006483	Techniques with Reduced DC-Link Ratings	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
-	An Average Model-Based Transistor Open-Circuit Fault Diagnosis Method for				
WF-010561	Grid-Tied Single-Phase Inverter	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
-	An Easily Implementable Gate Charge Controlled Active Gate Driver for SiC				
WF-034061	MOSFET	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	PV Configuration and Maximization Applied to Parallel Inverters Using				
WF-027847	Updated Droop Control	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Efficiency enhancement of Bridgeless Buck-Boost PFC Converter with Unity PF				
1	and DC Split to Reduce Voltage Stresses	TT Power Electronics Converters	Oral	October 21	S2 09:15-11:45
	Microgrid modeling and power quality enhancements using low-level control				
WF-019127	methods based on robust RST controller	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
WF-005266	Impedance Analysis of Solid Iron Conductors	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
WF-016527	Series Arc Fault Detection in DC Microgrid Using Hybrid Detection Method	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
	Power-sharing based on open-loop synchronization of Inverters in an Islanded				
WF-010367	AC Microgrid	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
	A Synchrophasor-based Decision Tree Approach for Identification of Most				
	Coherent Generating Units	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45

	Assessing the correlation between impedance and reference voltage of				
WF-021644	varistor arresters using linear regression model	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
	A FPGA Implementation of DFIG Wind Turbines for Analog-Digital Hybrid Real-				
WF-003336	Time Simulation	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
	Teager Energy Operator Based Fault Detection and Classification Technique				
WF-014028	for Converter Dominated Autonomous AC Microgrid	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
WF-013692	Voltage-based Load Control for frequency support provision by HVDC systems	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
	Implementation of new consumer model in RAPSim to allow home				
WF-019364	management system integration	TT Power Systems and Smart Grids	Oral	October 21	S2 09:15-11:45
WF-008362	Analysis of Photovoltaic Systems Power Losses in Partial Shading Conditions	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
WF-024201	A system approach to harnessing wind energy in a railway infrastructure	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	Active Magnetic Bearing Control and Hardware for an Experimental Flywheel				
WF-007587	Energy Storage System	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
WF-005797	A Model-based MPPT with Improved Tracking Accuracy	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	Analysis of AC Dynamic Parameters of PV solar cells Under Partial Shading for				
WF-021776	Breakdown and Hot Spot Detections	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	A Hierarchical Distributed Energy Management for Multiple PV-Based EV				
WF-005215	Charging Stations	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	Energy Management in Battery/Supercapacitor Hybrid System Using DC/DC				
WF-015873	Resonant Converters	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	A Generalized Platform for Optimal Planning of Isolated Microgrids,				
WF-011169	Considering Operation Constraints	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	Comparative Study of Three Power Management Strategies of a Wind PV				
WF-000922	Hybrid Stand-alone System for Agricultural Applications	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
WF-023728	A Review of Flywheel Energy Storage Systems for Grid Application	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S2 09:15-11:45
	Finite Set MPC Algorithm for Achieving Thermal Redistribution in a Neutral-	SS Advanced Control of Power Converters in Distributed Generation			
WF-013307	Point-Clamped Converter	Systems	Oral	October 21	S3 13:15-15:15
	Cascaded Model Predictive Control of Grid Connected Converter with LCL	SS Advanced Control of Power Converters in Distributed Generation			
WF-032646	Filter	Systems	Oral	October 21	S3 13:15-15:15
	A Novel Digital Signal Processing Modular Technique for a Grid-tie Indirect	SS Advanced Control of Power Converters in Distributed Generation			
WF-033782	Matrix Converter	Systems	Oral	October 21	S3 13:15-15:15
	Online Grid Support Inverter Parameters Identification Using Extended	SS Advanced Control of Power Converters in Distributed Generation			
WF-035459	Kalman Filters	Systems	Oral	October 21	S3 13:15-15:15
	Flexible Harmonic Control for Three-Level Selective Harmonic Modulation	SS Advanced Control of Power Converters in Distributed Generation			
WF-036382	using the Exchange Market Algorithm	Systems	Oral	October 21	S3 13:15-15:15
	Electrical Parameters Characterization of Aged IGBTs by Thermo-Electrical				
WF-010235	- ,	SS Advanced Prognostics and Health Management of Industrial Systems	Oral	October 21	S3 13:15-15:15
	Exploring the detectability of short-circuit faults in inverter-fed induction			1	
WF-017523		SS Advanced Prognostics and Health Management of Industrial Systems	Oral	October 21	S3 13:15-15:15

	Machine Condition Prediction Based on Long Short Term Memory and Particle				
WF-024244	Filtering	SS Advanced Prognostics and Health Management of Industrial Systems	Oral	October 21	S3 13:15-15:15
	Lévy Process-Based Stochastic Modeling for Machine Performance				
WF-033898	Degradation Prognosis	SS Advanced Prognostics and Health Management of Industrial Systems	Oral	October 21	S3 13:15-15:15
WF-010928	Wireless Monitoring and Record of Intravenous Medication	SS Biomedical Applications of Industrial Electronics	Oral	October 21	S3 13:15-15:15
WF-018961	The μ-BiMO method for needle pair optimization in ECT	SS Biomedical Applications of Industrial Electronics	Oral	October 21	S3 13:15-15:15
	Flexible Functional Electrical Stimulation Architecture with External Remote				
WF-036277	Controller for Unilateral Facial Paralysis Patients	SS Biomedical Applications of Industrial Electronics	Oral	October 21	S3 13:15-15:15
	Efficient PPG Signal Acquisition for Atrial Fibrillation Screening with Wearable				
WF-036889	Devices	SS Biomedical Applications of Industrial Electronics	Oral	October 21	S3 13:15-15:15
	Simualtion Framework for Cooperative Adatpive Cruise Control with Empirical	SS Connected and Automated Vehicle Integration, Safety, and			
WF-034207	DSRC Module	Environment Design	Oral	October 21	S3 13:15-15:15
		SS Connected and Automated Vehicle Integration, Safety, and			
WF-035068	Network Edge Assisted Efficient Data Annotation for Real-time Video Big Data	Environment Design	Oral	October 21	S3 13:15-15:15
	Increasing Traffic Flows with DSRC Technology: Field Trials and Performance	SS Connected and Automated Vehicle Integration, Safety, and			
WF-035254	Evaluation	Environment Design	Oral	October 21	S3 13:15-15:15
WF-006831	Assessing the Impact of Full–Duplex Wireless in Real–time Industrial Networks	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Authentication Based on Channel State Information for Industrial Wireless				
WF-007242	Communications	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Fundamental Constraints for Time-slotted MAC Design in Wireless High				
WF-007714	Performance: the Realistic Perspective of Timing	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Wireless Communication Technologies in Automated Guided Vehicles: Survey				
WF-009709	and Analysis	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Industrial LoRa: a Novel Medium Access Strategy for LoRa in Industry 4.0				
	Applications	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Feasibility Studies on Smart Pole Connectivity based on LPWA IoT				
WF-037001	Communication Platform for Industrial Applications	SS Innovative Approaches to Industrial Wireless Systems	Oral	October 21	S3 13:15-15:15
	Hardware-Efficient Velocity Estimation of Dynamic Obstacles Based on a				
	Novel Radix-4 CORDIC and FPGA Implementation	SS Intelligent Robotics: Control, Sensors and Navigation	Oral	October 21	S3 13:15-15:15
	Evaluation of Magnetic Absolute Encoder Using an Eccentric Structure with				
WF-010421	Feedback Correction	SS Intelligent Robotics: Control, Sensors and Navigation	Oral	October 21	S3 13:15-15:15
	Development of Autonomous Networked Robots (ANR) for Surveillance:				
	Conceptual Design and Requirements	SS Intelligent Robotics: Control, Sensors and Navigation	Oral		S3 13:15-15:15
1	Robotized Early Plant Health Monitoring System	SS Intelligent Robotics: Control, Sensors and Navigation	Oral	October 21	S3 13:15-15:15
	Nonlinear Robust Control of a Quadcopter: Implementation and Evaluation	SS Intelligent Robotics: Control, Sensors and Navigation	Oral		S3 13:15-15:15
WF-025739	Nonlinear optimal control of the UAV and suspended payload system	SS Intelligent Robotics: Control, Sensors and Navigation	Oral	October 21	S3 13:15-15:15
	Social Norm Based Collision Avoidance in Human-Robot Coexistence				
	Environment	SS Intelligent Robotics: Control, Sensors and Navigation	Oral		S3 13:15-15:15
WF-031348	Path Planning for UAVs with Engine Failure in the Presence of Winds	SS Intelligent Robotics: Control, Sensors and Navigation	Oral	October 21	S3 13:15-15:15

	A three-phase THSeAF based on Packed U-Cell and P+R controller to improve				
WF-008117	power quality of MEA	SS Power Electronics for the More Electric Aircraft	Oral	October 21	S3 13:15-15:15
	Packaging with double-side cooling capability for SiC devices, based on silver				
WF-009695	sintering	SS Power Electronics for the More Electric Aircraft	Oral	October 21	S3 13:15-15:15
	Design Considerations of Bidirectional SiC based DC Solid-State Power				
WF-016195	Controller for MEA systems	SS Power Electronics for the More Electric Aircraft	Oral	October 21	S3 13:15-15:15
	Real-Time Simulation of a More Electric Aircraft Using a multi-FPGA				
WF-026093	Architecture	SS Power Electronics for the More Electric Aircraft	Oral	October 21	S3 13:15-15:15
	Deadbeat Predictive Direct Power Control of Neutral-Point-Clamped				
	Converter Based Active Front End Rectifier for More Electric Aircraft				
	Applications	SS Power Electronics for the More Electric Aircraft	Oral	October 21	S3 13:15-15:15
	Asynchronous Static Output Feedback Control of Discrete-time Markov Jump				
WF-005207	Systems	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
WF-011738	False Data Injection Attack Detection in a Power Grid Using RNN	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	Optimal Jamming Attack Strategy against Wireless State Estimation: A Game				
WF-011975	Theoretic Approach	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	A Two-Stage Economic Optimization Based on Predictive Control for EV				
WF-013161	Microgrid	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	Event-Triggered Control on Quasi-Average Consensus in the Cooperation-				
	Competition Network	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	Event-Triggered Consensus for General Linear Leader-Following Multi-Agent				
	Systems Under Directed Topologies	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	Collaborative Model-based Fallback Control for Secured Networked Control				
WF-018333		SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral	October 21	S3 13:15-15:15
	Analysis of a Symmetrical Nine-phase Machine with Highly Non-Sinusoidal				
	Back-Electromotive Force	SY Students and Young Professionals Forum	Oral	October 21	S3 13:15-15:15
	A Data-Driven Method for SKR Identification and Application to Stability				
	Margin Estimation	SY Students and Young Professionals Forum	Oral	October 21	S3 13:15-15:15
	A Data-Driven Fault Detection Approach for Periodic Rectangular Wave				
WF-023582	Disturbance	SY Students and Young Professionals Forum	Oral	October 21	S3 13:15-15:15
	Comparison of Energy Harvesting Concepts for Heating, Ventilation and Air				
	Conditioning Systems	SY Students and Young Professionals Forum	Oral	October 21	S3 13:15-15:15
	Design and Fabrication of the Trans-Rotary Magnetic Gear Using Quasi-				
	Halbach Arrays	TT Electrical Machines and Industrial Drives	Oral		S3 13:15-15:15
	Synchronous Generators Stator Ground Fault Detection Using Wavelet Theory	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15
	Experimental Validation of a Novel Synchronous Reluctance Motor with a				
	Sinusoidal Rotor Shape	TT Electrical Machines and Industrial Drives	Oral		S3 13:15-15:15
WF-027588	Analysis of Current for Fault-Tolerant Control of Excitation Fault in DSEG	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15

	Design Key Aspects and Analysis of a Novel Synchronous Reluctance Motor				
WF-028231	with Sinusoidal Rotor Lamination Shape	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15
	Current Control of AC Drives Using Shunt Current Sensors and Delta-Sigma				
WF-000582	Modulation	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15
WF-027006	A Model Predictive Control for Synchronous Motor Drive with Integral Action	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15
	Optimal feedforward torque control of synchronous machines with time-				
WF-034347	varying parameters	TT Electrical Machines and Industrial Drives	Oral	October 21	S3 13:15-15:15
WF-005584	Digital planning of complex production systems based on life-cycle costs	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
	Soft-Switching Control Circuit Based on Traveling and Reflected Waves for				
WF-016551	High-Frequency Resonant Inverter Applicable to Capacitive Load Impedance	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
WF-019755	Digital Circuit Simulator Project at Undergraduate Level	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
WF-028037	A Networked Cyber-Physical System Testbed for Undergraduate Education	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
	Educational Game theme based Instructional module for teaching				
WF-029343	introductory programming.	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
WF-030155	Low Power Design of a Wireless Sensor Node to Monitor Electric Car Batteries	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
	Bibliometric analysis of 50 years of IEEE Industrial Electronics Society				
WF-030538	publications	TT Industrial Electronics and Education	Oral	October 21	S3 13:15-15:15
	Dual Optimization of an H-Bridge SPWM Microinverter by an Optimal				
WF-002321	Switching Frequency Tracking Technique	TT Power Electronics Converters	Oral	October 21	S3 13:15-15:15
	Disturbance Rejection Enhancement for Three-Phase Converters by Active				
WF-002429	Inductance	TT Power Electronics Converters	Oral	October 21	S3 13:15-15:15
	A Method for Decoupling control Current of \$\\$#12288; Three-port Isolated DC-				
WF-009016	AC-DC Converter	TT Power Electronics Converters	Oral	October 21	S3 13:15-15:15
	A Hierarchical Power Routing Scheme for Interlinking Converters in				
WF-031801	Unbalanced Hybrid AC-DC Microgrids	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	Current-limiting droop control design of paralleled AC/DC and DC/DC				
	converters in DC micro-grids	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	DQ Synchronous Frame Nonlinear Controller Design for a Single-Phase Stand-				
WF-029769	Alone and Grid-Connected Hybrid Wind/Battery System	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	Solar Generation Forecasting by Recurrent Neural Networks optimized by				
	Levenberg-Marquardt Algorithm	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	Design of a distributed signal processing unit for transmission line protection				
WF-013048	in a centralized substation protection architecture	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	Reactive Power Pricing Based on FTR in the deregulated power market	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	An Optimal Approach for Offering Multiple Demand Response Programs Over				
	a Power Distribution Network	TT Power Systems and Smart Grids	Oral		S3 13:15-15:15
	A Hybrid Customer Baseline Load Estimator for Small and Medium Enterprises	TT Power Systems and Smart Grids	Oral	October 21	S3 13:15-15:15
	Super-short Term Wind Speed Prediction based on Artificial Neural Networks				
WF-020222	for Wind Turbine Control Applications	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15

	Multi-Reservoir Echo State Network for Proton Exchange Membrane fuel cell		1		
	Remaining Useful Life prediction	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	MPPT based on One Cycle Control and Temperature Method Embedded in a	Therewable Energy and Energy Storage Systems	Orai	October 21	33 13.13 13.13
WF-000698	· · · · · · · · · · · · · · · · · · ·	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	Optimization of the Excitation Capacitor of a STATCOM assisted Self Excited	Thenewable Energy and Energy Storage Systems	Orai	October 21	33 13.13 13.13
	Induction Generator based Wind Energy Conversion System	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	Convex Optimization Design of Multi-Model Controller for Pitch-Regulated	Thenewable Energy and Energy Storage Systems	Orai	October 21	33 13.13 13.13
	Wind Turbine Systems	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	Optimal Sizing Of Battery Energy Storage System For An Islaned Microgrid	TT Renewable Energy and Energy Storage Systems	Oral		S3 13:15-15:15
	Supervisory Controller for Smoothing Wind Turbine Power Output based on	Thenewable Energy and Energy Storage Systems	Orai	October 21	33 13.13-13.13
	FESS using ANNs for Short-Term Ahead Prediction	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	Robust Model Reference Adaptive Individual Pitch Control for Wind Turbine	Thenewable Energy and Energy Storage Systems	Orai	October 21	33 13.13-13.13
1	Load Reduction	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S3 13:15-15:15
	An Identification Approach for the Data-Driven SIR in the PnP Monitoring and	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	33 13.13-13.13
1	Control Architecture	Industrial Systems	Oral	October 21	S4 15:45-18:00
	An adaptive data-driven fault detection method for monitoring dynamic	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
WF-006203	· · · · · · · · · · · · · · · · · · ·	Industrial Systems	Oral	Octobor 21	S4 15:45-18:00
	Design approach to MIMO diagnostic observer and its application to fault	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
WF-011096		Industrial Systems	Oral	Octobor 21	S4 15:45-18:00
	Closed-Loop Identification of the Data-Driven SKR with Deterministic	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
	Disturbance for Fault Detection	Industrial Systems	Oral	Octobor 21	S4 15:45-18:00
WI-013412	Disturbance for Fault Detection	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
W/F-013447	Smoothed Fisher Discriminant Analysis for Incipient Fault Diagnosis	Industrial Systems	Oral	October 21	S4 15:45-18:00
WI-013447	Shoothed Hister Dischillinant Analysis for incipient Fault Diagnosis	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
W/F-013/171	DOSS: Dual Over Sampling Strategy for Imbalanced Data Classification	Industrial Systems	Oral	October 21	S4 15:45-18:00
	A Geometric Approach to Clustering Based Anomaly Detection for Industrial	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
	Applications	Industrial Systems	Oral	October 21	S4 15:45-18:00
	RBF Neural Networks Modeling Methodology Compared to Non-Parametric	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
	Auto-Associative Models for Condition Monitoring Applications.	Industrial Systems	Oral	Octobor 21	S4 15:45-18:00
	Nonlinear VW-SAE based deep learning for quality-related feature learning	SS Advances in Data-Driven Process Monitoring and Control for Complex		October 21	34 13.43-18.00
	and soft sensor modeling	Industrial Systems	Oral	Octobor 21	S4 15:45-18:00
	An Application of MBD Based Inspection in Cloud Manufacturing	SS Cloud Manufacturing	Oral		S4 15:45-18:00
	Achieving Real-Time Quality of Service in Software Defined Networks	SS Cloud Manufacturing	Oral		S4 15:45-18:00
	Simulation model of dynamic service scheduling in cloud manufacturing	SS Cloud Manufacturing	Oral		S4 15:45-18:00
	Self-Organizing Map Using Classification Method for Services in Multilayer	35 Cloud Manufacturing	Oral	OCTOBEL 21	37 13.43-18.00
	Computing Environments	SS Cloud Manufacturing	Oral	October 21	S4 15:45-18:00
	Key Issues of Cloud Manufacturing Applied to Agricultural Production	SS Cloud Manufacturing	Oral		S4 15:45-18:00
	loT-based senses for virtual enterprises	SS Cloud Manufacturing	Oral		S4 15:45-18:00
	An Architecture of Knowledge Cloud Based on Manufacturing Big Data	SS Cloud Manufacturing SS Cloud Manufacturing	Oral		S4 15:45-18:00
VVF-U33U84	An Architecture of Knowledge cloud based on Manufacturing big Data	33 Cloud Manufacturing	JOI at	Toctober 21	34 13.43-16.00

WF-011231	Synthetic loading for symmetrical and asymmetrical nine-phase machines	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
WF-015725	Vector Control of Multiple Three-Phase Permanent Magnet Motor Drives	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Predictive Control Of Parallel Induction Motors Fed by Single Inverter With				
WF-035246	Common Current Sensors	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Improvement of Postfault Performance of Multiphase Drives in Terms of				
WF-002445	Operating Region and Stator Copper Loss	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Carrier-Based PWM With Enhanced DC-Link Exploitation for Five-Phase				
WF-002437	Machines With Circulating-Current Filters	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Discrete-Time Sliding Mode with Time Delay Estimation of a Six-Phase				
WF-014222	Induction Motor Drive	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	PWM for Open-End Winding Drive in Fault Tolerant Mode with Minimum				
WF-033235	Infinity Norm Calculation of Modulation Signals	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Performance Evaluation of Five Phase PUC Inverter Fed Five Phase Induction				
WF-033685	Motor Drive under Different Carrier Based PWM Schemes	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Fuzzy Logic Control of a Low Speed Six-Phase Induction Generator for Wind				
WF-016608	Turbines	SS Control of Multiphase Drive Systems	Oral	October 21	S4 15:45-18:00
	Design and Control of a Solar Photovoltaic Powered Electric Vehicle Adapted	SS Modeling, Management and Control of Energy Storage Systems in			
	to the Mobility of Wheelchair Users on Beaches	Electric Vehicles	Oral	October 21	S4 15:45-18:00
	Research on LC filter Cascaded with Buck Converter Supplying Constant Power	SS Modeling, Management and Control of Energy Storage Systems in			
WF-016179	Load Based on IDA-Passivity-Based Control	Electric Vehicles	Oral	October 21	S4 15:45-18:00
	Reactive Power Compensation using Plugged-in Electric Vehicles for an AC	SS Modeling, Management and Control of Energy Storage Systems in			
WF-023175	Power Grid	Electric Vehicles	Oral	October 21	S4 15:45-18:00
	Small Signal Analysis and Control Design of Snubberless Naturally Clamped	SS Modeling, Management and Control of Energy Storage Systems in			
WF-023809	ZCS/ZVS Current-fed Half-Bridge DC/DC Converter for EV	Electric Vehicles	Oral	October 21	S4 15:45-18:00
		SS Modeling, Management and Control of Energy Storage Systems in			
WF-025275	Derating strategies for lithium-ion batteries in electric vehicles	Electric Vehicles	Oral	October 21	S4 15:45-18:00
		SS Modeling, Management and Control of Energy Storage Systems in			
WF-031372	Advances in Li-Ion Battery Management for Electric Vehicles	Electric Vehicles	Oral	October 21	S4 15:45-18:00
		SS Modeling, Management and Control of Energy Storage Systems in			
WF-033049	A Group Control Energy Management Strategy Based on Lithium Battery SOC	Electric Vehicles	Oral	October 21	S4 15:45-18:00
		SS Modeling, Management and Control of Energy Storage Systems in			
WF-033545	Li-ion battery pack SoC estimation for electric vehicles	Electric Vehicles	Oral	October 21	S4 15:45-18:00
	Voltage Control Comparison for Low-Power DC-DC Converters in EVs: PI and	SS Modeling, Management and Control of Energy Storage Systems in			
WF-034975	Explicit MPC	Electric Vehicles	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-024708	Sleep Apnea Monitoring for Smart Healthcare	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WE-025097	Analysis of Energy Inefficiency Challenges in Cognitive Radio Sensor Network	Safety	Oral	October 21	S4 15:45-18:00

	Software Defined Wireless Sensor Networks Management and Security	SS Smart Technologies and Case Study for Industrial Applications and			
WF-026069	Challenges: A Review	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-026077	Analysis of Notable Security Issues in SDWSN	Safety	Oral	October 21	S4 15:45-18:00
	A Case Study on Knowledge Driven Code Generation for Software-Defined	SS Smart Technologies and Case Study for Industrial Applications and			
WF-031267	Industrial Cyber-Physical Systems	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-032301	Applicability of Context-Aware Health Monitoring to Hydraulic Circuits	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-034568	Smart Manufacturing Systems: Climbing the DIKW Pyramid	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-036307	Refining IOPT Petri Nets class for embedded system controller modeling	Safety	Oral	October 21	S4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
	Applicability of Context-Aware Health Monitoring to Hydraulic Circuits	Safety	Oral	October 21	S4 15:45-18:00
	A novel high frequency signal injection strategy for self-sensing control of				
WF-007234	electric AC machine drives	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	An Improved Speed and Position Estimator for Transient Performance of Back-				
	EMF Self-Sensing for IPMSM	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	An effective ellipse fitting technique of the current response locus to rotating				
WF-036773	HF voltage injection in IPMSM for sensorless rotor position estimation	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	Quiet Position Sensorless Drive of IPMSM using Ultrasonic Three-phase				
WF-003654	Triangular-wave Carrier	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	Acoustic Noise Removal of Sensorless Control for an IPMSM Based on				
WF-003662	Extended EMF and Voltage Injection Synchronized with PWM Carrier	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	Post-Fault FOC Transformation Matrix for Unequal Amplitude Currents during				
	Dual Open-Phase Fault	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	Multiphysics modeling and optimal current profiling for Switched reluctance				
WF-025836	machine drive	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
WF-016136	Sliding Mode Speed Control Applied to the Switched Reluctance Motor	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
	Torque Ripple Suppression for Open-End Multi-Phase PMSMs Operating				
	under Open-Phase Faults	TT Electrical Machines and Industrial Drives	Oral	October 21	S4 15:45-18:00
WF-006238	Hardware-In-the-Loop simulation of a DC-machine with INTEL FPGA boards	TT Electronic Systems On Chip and Embedded Systems	Oral	October 21	S4 15:45-18:00
	Modular Multi-level Converter Hardware-in-the-Loop Simulation on low-cost				
	System-on-Chip devices	TT Electronic Systems On Chip and Embedded Systems	Oral		S4 15:45-18:00
	100fps Camera-Based UGV Localization System Using Cyclone V FPSoC	TT Electronic Systems On Chip and Embedded Systems	Oral	October 21	S4 15:45-18:00
WF-030813	Spatially Distributed Water Quality Monitoring using Floating Sensors	TT Electronic Systems On Chip and Embedded Systems	Oral	October 21	S4 15:45-18:00
	Interoperability Enhancement in Health Care at Remote Locations using				
WF-030856	Thread Protocol in UAVs	TT Electronic Systems On Chip and Embedded Systems	Oral	October 21	S4 15:45-18:00

	A SIAR Transmitting Waveform Design Approach Based on Positive and				
WF-031631	Negative Sequential Carrier Frequency Coding	TT Electronic Systems On Chip and Embedded Systems	Oral	October 21	S4 15:45-18:00
	An Embedded Cascade SVM Approach for face detection in the IoT Edge Layer	· · · · · · · · · · · · · · · · · · ·	Oral	October 21	S4 15:45-18:00
	Sliding Mode Control of Three-Phase series Hybrid Power Filter with Reduced				
	cost and Rating	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	Isolated Single Stage AC-DC Converter Topologies with a Regenerative				
WF-002151	Snubber Circuit for EV Application	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	A Design Guide of Direct Matrix Converter Open Circuit Online Fault Diagnosis				
WF-036501	in Industrial Applications	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	Comparison of Carrier Based PWM Strategies for a Five Level Unidirectional				
WF-007064	Hybrid Rectifier	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	Gate Driver Circuit for Short Pulse Generation in Solid-State Pulsed Power				
WF-006211	Modulators	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
WF-000744	State Plane Trajectory Control of a Soft Switching AC-Link DC-DC Converter	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	High-Frequency Single-Switch Inverter for Driving Capacitive Loads	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	Class D Series-Resonant DC/DC Converter Using Switch-Controlled Capacitor				
WF-016705	with ON-OFF Feedback Control	TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	A 20MHz Isolated Synchronous Rectification DC-DC Converter Based on GaN				
WF-011967		TT Power Electronics Converters	Oral	October 21	S4 15:45-18:00
	Secure Blockchain-based Energy Transaction Framework in Smart Power				
WF-026433	Systems	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	A Hierarchical Multiagent-based Protection Structure for Meshed Microgrids	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	High Impedance Fault Detection in Real-Time and Evaluation using Hardware-				
WF-019097	in-Loop Testing	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	Robust IDA-PBC based Load Voltage Controller for Power Quality				
WF-027197	Enhancement of Standalone Microgrids	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	Impact of supervisory control inputs in multi-inverter distribution systems	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	Dynamic Microgrids with Voltage Unbalance Mitigation Using Distributed				
	Secondary Control	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	A Hybrid FACTS topology for Reactive Power Support in High Voltage				
	Transmission Systems.	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	Application and Validation of Virtual Synchronous Machines in Power System				
WF-024066	Operation	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
WF-023671	Single-Phase Smart Load Controller With A Battery Storage	TT Power Systems and Smart Grids	Oral	October 21	S4 15:45-18:00
	Photovoltaic Module Integrated Microinverter with Gradationally Controlled				
WF-018163	Voltage Sources and Series Connected Active Filter	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	Analysis of Bifurcation Behaviors in MMC Connected to a Weak Grid	TT Renewable Energy and Energy Storage Systems	Oral		S4 15:45-18:00
	Powering 12-V LED luminiaries with supercapacitor-based energy storage in				
WE-016071	DC-microgrid systems	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00

	The Design and Implementation of Improved Software Phase-Locked Loop for				
WF-027448	Single-phase Grid-connected Inverter.	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	Vibration Energy Harvesting Circuit with Impedance Matching and Wake-up				
WF-027952	for Freight Railcars	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
WF-022322	High-Frequency Grid Current Control of Parallel Inverters	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	Hybrid Control for a Power Interface of a PEM-FC System Supplying	S. S. S.			
	Residential Thermostatic Loads	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	DC Arc-Fault Detection in PV Systems Using Multistage Morphological Fault	S. S. S.			
	Detection Algorithm	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	Online I-V Tracer for per string monitoring and maintenance of PV panels	TT Renewable Energy and Energy Storage Systems	Oral	October 21	S4 15:45-18:00
	Novel Balancing Approach for Multilevel Diode Clamped Converters in	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-004111	Medium Voltage Hybrid STATCOM Applications	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M1 08:00-09:00
	Sliding-Mode and Proportional-Resonant Based Control Strategy for Three-	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
	Phase Two-Leg T-Type Grid-Connected Inverters with LCL Filter	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M1 08:00-09:00
	Control of A Modular-Concatenated-Cell (MCC) Multilevel Converter Topology	5			
	Exploiting Logic-Equations Method	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M1 08:00-09:00
	Space Vector Modulation Technique On Single Phase Sensor-less PUC5	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
	Inverter and Voltage Balancing at Flying Capacitor	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M1 08:00-09:00
	An Active Assistant Robotic System based on High-Speed Vision and Haptic				
	Feedback for Human-Robot Collaboration	SS Collaborative Robots in Smart Manufacturing	Oral	October 22	M1 08:00-09:00
	Automatic Construction of Real-World Datasets for 3D Object Localization				
	using Two Cameras	SS Collaborative Robots in Smart Manufacturing	Oral	October 22	M1 08:00-09:00
	Knowledge Based Hierarchical Decomposition of Industry 4.0 Robotic				
	Automation Tasks	SS Collaborative Robots in Smart Manufacturing	Oral	October 22	M1 08:00-09:00
	Image Noise Cancellation by Taking Advantage of the Principal Component				
WF-000094	Analysis Technique	SS Machine Vision, Control and Navigation	Oral	October 22	M1 08:00-09:00
	Reservoir Computing based Neural Image Filters	SS Machine Vision, Control and Navigation	Oral		M1 08:00-09:00
	An energy saving approach for active object recognition and localization	SS Machine Vision, Control and Navigation	Oral		M1 08:00-09:00
	Nearest Half Level Modulation for the MMC applied to DC Distribution Grids	SS Modular Multilevel Converters and Applications	Oral		M1 08:00-09:00
	Optimal Control Of Modular MultiLevel Converters (MMCs)	SS Modular Multilevel Converters and Applications	Oral	October 22	M1 08:00-09:00
	Pseudo Derivative Feedback Circulating Current Suppression Controller for	• • • • • • • • • • • • • • • • • • • •			
WF-012297	Modular Multilevel Converter with Flying Capacitor Submodules	SS Modular Multilevel Converters and Applications	Oral	October 22	M1 08:00-09:00
	Reducing Computation Effort by Parallel Optimization for Modular Multilevel				
WF-034991		SS Modular Multilevel Converters and Applications	Oral	October 22	M1 08:00-09:00
WF-005444	An Online Estimation Algorithm of State-of-Charge of Li-ion Batteries	SS Recent Developments in Sliding Mode Control and Its Applications	Oral		M1 08:00-09:00
	Sliding Mode Control of Three-Phase Three-Level Two-Leg NPC Inverter with				
	LCL Filter for Distributed Generation Systems	SS Recent Developments in Sliding Mode Control and Its Applications	Oral	October 22	M1 08:00-09:00
	Modified MIMO Sliding-Mode Controller with Constant Switching Frequency				
	for Grid-Connected LCL-Filtered Quasi-Z-Source Inverter	SS Recent Developments in Sliding Mode Control and Its Applications	Oral	October 22	M1 08:00-09:00

	Dynamic Gains Robust Differentiator based Fault Detection Approach for				
WF-017531	Cascaded H-Bridge Multilevel Inverters	SS Recent Developments in Sliding Mode Control and Its Applications	Oral	October 22	M1 08:00-09:00
		SS Reliability and Resilience for Smart Grids by Big Data, Power			
WF-018937	An Energy-Stored Quasi-Z Source Converter for Hybrid AC/DC Microgrid	Electronics and Energy Storage	Oral	October 22	M1 08:00-09:00
	Dynamic Hosting Capacity Management and Demand Charge Reduction via a	SS Reliability and Resilience for Smart Grids by Big Data, Power			
WF-020796	Hybrid Storage System	Electronics and Energy Storage	Oral	October 22	M1 08:00-09:00
	A Fast Average Model-based Method for IGBT and Current Sensor Fault	SS Reliability and Resilience for Smart Grids by Big Data, Power			
WF-028665	Diagnosis in Grid-Tied Inverters	Electronics and Energy Storage	Oral	October 22	M1 08:00-09:00
		SS Reliability and Resilience for Smart Grids by Big Data, Power			
WF-035882	Active Fault Management for Microgrids	Electronics and Energy Storage	Oral	October 22	M1 08:00-09:00
	Evaluation in Real World of the Measuring Position Determination for Visual				
WF-019011	Inspection using UAV	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M1 08:00-09:00
WF-009156	384 TMAC/s FIR filtering on an Artix-7 FPGA using Prism signal processing	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M1 08:00-09:00
	Tool Wear Prediction using Function Approximation Driven by Signal				
WF-017477	Processing	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M1 08:00-09:00
	A New Recognition Algorithm for Shockable Arrhythmias and Its Performance				
WF-017744	Analysis	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M1 08:00-09:00
	LTCL-Filter Active-Damping Design Considerations for Low-Switching-				
WF-026719	Frequency Grid-Tied VSCs	TT Power Electronics Converters	Oral	October 22	M1 08:00-09:00
	A Comparison of Extrapolation Techniques for Model Predictive Direct				
WF-014192	Current Control	TT Power Electronics Converters	Oral	October 22	M1 08:00-09:00
	Carrier Phase Shift Modulation for Reducing the Common Mode Voltage in a				
WF-023876	Two-Level Three-Phase Inverter	TT Power Electronics Converters	Oral	October 22	M1 08:00-09:00
	Harmonic elimination procedure for cascaded multilevel inverters with even				
WF-033979	number of dc sources	TT Power Electronics Converters	Oral	October 22	M1 08:00-09:00
WF-004871	Fire detection of Unmanned Aerial Vehicle in a Mixed Reality-based System	TT Sensors, Actuators and Micro-Nanotechnology	Oral	October 22	M1 08:00-09:00
	Investigation of Non-Contact Biometric System Using Capacitive Coupling				
WF-007358	Electrodes	TT Sensors, Actuators and Micro-Nanotechnology	Oral	October 22	M1 08:00-09:00
WF-016616	Hysteresis Compensation in Force/Torque Sensor based on Machine Learning	TT Sensors, Actuators and Micro-Nanotechnology	Oral	October 22	M1 08:00-09:00
	Sensorless Position Estimation with Thermal Compensation for Compact Dual				
WF-018465	Solenoid Actuator	TT Sensors, Actuators and Micro-Nanotechnology	Oral	October 22	M1 08:00-09:00
	A Hybrid Seven Level Inverter Topology Formed By Cascading T-type and	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-000868	Active Neutral Point Clamped Inverter For Induction Motor Drives	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
	A Thirteen Level Twenty-Four Sided Polygonal Voltage Space Vector Structure	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-001198	for Drives	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-001988	Detroit Rectifier	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-003972	A Novel Inductor Based Balancing Circuit for Diode Clamped Converters	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45

		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-015849	CHB Converter DC voltage control based on Feedback Linearization	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
	Sensor-Less Logic-Equation-Based Modultion Method for Grid-Connected	SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
	PUC5 Converter	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-029475	Space Vector Modulation for Packed-U-Cell Converters (PUC)	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-036919	New Nine-Level Inverter with Self Balancing of Capacitors Voltages	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
		SS Advanced Multilevel Converters with DC Capacitors: Modulation,			
WF-037028	Self-Balancing Trinary Asymmetric Three-Phase Multilevel Inverter	Voltage Balancing, and Their Control Strategies.	Oral	October 22	M2 09:30-11:45
	A Reduced-Switching-Frequency Modulation Method for Hybrid MMCs under				
	Over-Modulation Conditions	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	An Efficient Topology of Modular-Multilevel Converter with Alternative Arm				
WF-013366	Operation	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Indirect Control of Capacitor Voltage Ripple and Circulating Current in a				
WF-015865	Modular Multilevel Converter	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Control of Modular Multilevel Converters Based on the State-Plane Analysis				
WF-018538	and Coordinate Transformation	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Optimal Design of a LCL Filter for LV Modular Multilevel Converters in Hybrid				
WF-019623	ac/dc Microgrids Application	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Performance Comparison of Detailed and Averaging Model of a Grid				
WF-027901	Connected 401-level MMC System under System Fault Conditions	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Channel Modeling for Powerline Communications in Series-Connected				
WF-029742	Inverters	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
WF-031828	An improved Alternate Arm Converter for HVdc applications	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Generating the Arm Voltage References of Modular Multilevel Converters				
	Employing Predictive Technique	SS Modular Multilevel Converters and Applications	Oral	October 22	M2 09:30-11:45
	Digital Predistortion of Hammerstein Systems Using the Nonlinear Filtered-x				
WF-013536	PEM Algorithm with Initial Subsystem Estimates	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
	Remaining Useful Life Estimation of Batteries using Dirichlet Process with				
	Variational Bayes Inference	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
WF-009148	Ultra narrowband filtering with Prism signal processing: design and simulation	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
	Three-Dimensional Localization of Known Objects for Robot Arm Application				
	based on a Particle Swarm Optimized Low End Stereo Vision System	TT Computational Intelligence and Signal and Image Processing	Oral		M2 09:30-11:45
WF-026891	Intelligent Wireless Sensor Network for Ornamental Plant Care	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
	A Z Structure Convolutional Neural Network Implemented by FPGA in Deep				
WF-004936		TT Computational Intelligence and Signal and Image Processing	Oral		M2 09:30-11:45
WF-016632	Dataset for Web Traffic Security Analysis	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45

	A Machine Learning Approach Applied to Energy Prediction in Job Shop				
WF-021733	Environments	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
	Combining Pixel Selection with Covariance Similarity Approach in				
WF-018279	Hyperspectral Face Recognition	TT Computational Intelligence and Signal and Image Processing	Oral	October 22	M2 09:30-11:45
	Improved Angle Estimation for PM Synchronous Machines with non				
	Sinusoidal Saliency	TT Electrical Machines and Industrial Drives	Oral		M2 09:30-11:45
WF-003077	Finite Control Set Model Predictive Speed Control with a Voltage Smoother	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
	A Smooth and Stable Open-Loop I-F Control for a Surface Mount PMSM Drive				
WF-031011	by Ensuring Controlled Starting Torque	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
	Permanent Magnet Machine Position Sensorless Drive at Low Speed with				
WF-027391	Phase Voltage Measurement	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
WF-024597	Torque Ripple Minimization of PPMIM Drives with Phase-Shifted Carrier PWM	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
	Comparitive Analysis of Hysteresis Current Control Strategies to Achieve				
WF-004189	Nearly Constant Switching Frequency for a Two-Level Inverter fed IM Drive	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
	Predictive Current Control of Five Phase Permanent Magnet Motor with Non-				
WF-014281	sinusoidal Back-EMF	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
WF-006726	Design of a linear actuator for railway turnouts	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
WF-020974	An Adjustable Sensorless Shoot-through Protection for H-bridges	TT Electrical Machines and Industrial Drives	Oral	October 22	M2 09:30-11:45
	Time Optimal Rendezvous for Multi-Agent Systems Amidst Obstacles - Theory				
WF-010782	and Experiments	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
	Robustness Margin for Leader-based Multi-agent Consensus Systems in				
WF-028045	Presence of Parametric Uncertainty	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
	Kinematic and Dynamic Analysis and Design Toolbox of High-DOF Hybrid				
WF-028428	Multibody Systems	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
WF-018201	Programming robot work flows with a task modeling approach	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
	Kinetic Energy Attenuation Method for Posture Balance Control of Humanoid				
WF-025569	Biped Robot under Impact Disturbance	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
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WF-002402	robots	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
WF-026506	Intelligent Networked Navigation of Mobile Robots with Collision Avoidance	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
WF-018562	Nonlinear Disturbance Observer-Based Control for Quadrotor UAV	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
WF-005282	Measurement Uncertainty Analysis of a Robotic Total Station Simulation	TT Mechatronics and Robotics	Oral	October 22	M2 09:30-11:45
WF-034851	Overcoming design challenges in low voltage GaN based PSFB battery charger	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	Analysis and Simulation of Transformer Isolated High Current 48 V DC Power				
	Supply with DC-UPS Capability Based on SCALDO Technique for Google's New				
	Open Rack Power Architecture	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	A Plug-in Electric Vehicle (PEV) with Compact Bidirectional CuK converter and				
	Sturdier Induction motor drive	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	Power Loss Analysis of a Multiport DC-DC Converter for DC Grid Applications	TT Power Electronics Converters	Oral		M2 09:30-11:45

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WF-006114	Control for Data Centers	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	Analysis and Output Voltage Control of a High-Efficiency Converter for DC				
WF-023531	Microgrids	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	A single-switch high boost ratio active rectifier interface for low-voltage wind				
WF-013498		TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
	Variable Step-Size Switching Frequency Modulation for Synchronous Buck				
WF-010316	Converter	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
WF-006785	A Family of Nonisolated Active Switched Boost Quasi-Z-Source Inverters	TT Power Electronics Converters	Oral	October 22	M2 09:30-11:45
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	An Effective PCC Voltage Harmonic Compensation and Harmonic Power				
WF-012602	Sharing in Islanded Microgrid	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
WF-019828	SRF-based current-limiting droop controller for three-phase grid-tied inverters	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
	Networked Control Approach for Voltage Regulation with Optimal Reactive				
WF-014176	Power-Sharing	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
WF-009911	Opportunity for Military Microgrid Fuel Savings Through Direct Load Control	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
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WF-026832	Grids using Flexible User's Profiles in Microgrids	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
	A Two-layer Model Predictive Control based secondary control with economic				
WF-007684	performance tracking for islanded microgrids	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
WF-013315	Seamless Mode Transfer Control for a Master-Slave Microgrid	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
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WF-034266	Communications in Smart Grid	TT Power Systems and Smart Grids	Oral	October 22	M2 09:30-11:45
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WF-003476	Turbines	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	Combined Droop and Master-Slave Method for Load Sharing in Stand-alone				
WF-008931	AC Microgrid	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	A SiC-Based Dual-Input Buck-Boost Converter with Independent MPPT For				
WF-004529	Photovoltaic Power Systems	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	Control method of energy storage system to increase output power from				
WF-017353	power conditioning systems (PCS)	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	Economic Operation of PV-DG-Battery Based Microgrid with Seamless Dual				
WF-009105	Mode Control	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	Control of Simulated Solar PV Microgrid Operating in Grid-Tied and Islanded				
WF-023361	Modes	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	PV Farm Operation with Independent Reactive Power Compensation				
WF-015962	Regardless of the Active Power Level Generation	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
	Model Predictive Control of H5 Inverter for Transformerless PV Systems with				
WF-024104	Maximum Power Point Tracking and Leakage Current Reduction	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45

	Global Maximum Power Point Tracking Scheme on a Partially Shaded				
WF-029076	Photovoltaic Array	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M2 09:30-11:45
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WF-000841	Individual Driver Steering Characteristics	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Impact and Mitigation of Electric Vehicle Plug-in on the PV fed DC-bus				
1	Charging Station	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Development of 1d Distributed Electro-Thermal Li-lon Cell Model	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Secondary Active Rectifier Control Scheme for a Wireless Power Transfer				
	System with Double-Sided LCC Compensation Topology	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
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	Cascaded Adaptive Super Twisting controller for DC/DC converters in				
	electrical vehicle applications	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Rear Steer Actuator-Less Four-Wheel Steering System for Four-Wheel Driving				
WF-022683	Electric Vehicles	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Fundamental Study on Driving Force Control Method for Independent-Four-				
WF-006491	Wheel-Drive Electric Vehicle Considering Tire Slip Angle	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M2 09:30-11:45
	Hybrid Optimization Method for High-performance Cascade Structure				
WF-004154	Feedback Controller Design	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-007749	for fast and accurate FRF identification	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-008729	Control	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-008982	Kalman Filter	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-009164	Second Bending Mode Oscillation	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-013269	Result	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
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WF-033863	Preactuation Approach	SS Advanced Motion Control for Mechatronic Systems	Oral	October 22	M3 13:15-15:15
	A Model to Estimate the Impact of Electrical Vehicle Displacement on the	SS Electric Vehicle Charging Systems: Architectures, Communication,			
WF-004006	Medium Voltage Network	and Management	Oral	October 22	M3 13:15-15:15
	Adaptive Control Of A Three-Phase Dual Active Bridge Based For Electric	SS Electric Vehicle Charging Systems: Architectures, Communication,			
WF-007536	Vehicles Charging	and Management	Oral	October 22	M3 13:15-15:15
		SS Electric Vehicle Charging Systems: Architectures, Communication,			
WF-011606	Extended Harmonic Analysis of Wireless Charging Systems	and Management	Oral	October 22	M3 13:15-15:15

	Interfacing an Electric Vehicle to the Grid with Modular Conversion Unit: A	SS Electric Vehicle Charging Systems: Architectures, Communication,			
	Case Study of a Charging Station and its Control Framework	and Management	Oral	October 22	M3 13:15-15:15
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	Basic Study on Arrangement Design of In-motion Charging Facility on Urban	SS Electric Vehicle Charging Systems: Architectures, Communication,	0.0.	October 22	10.13.13.13
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	An ACO-KMT Energy Efficient Routing Scheme for Sensed-IoT Network	SS Low Power Smart Sensors in Industrial Applications	Oral		M3 13:15-15:15
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	Optical Networks	TT Communications for Industrial and Factory Automation	Oral	October 22	M3 13:15-15:15
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	Protocols Based on Raspberry Pi	TT Communications for Industrial and Factory Automation	Oral	October 22	M3 13:15-15:15
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1	Engineering Workflow	TT Communications for Industrial and Factory Automation	Oral	October 22	M3 13:15-15:15
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1	Industrial Process Monitoring and Control	TT Communications for Industrial and Factory Automation	Oral	October 22	M3 13:15-15:15
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WF-018597	Enhanced Dynamic Performance	TT Control Systems and Applications	Oral	October 22	M3 13:15-15:15
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WF-013005	under Time Varying Delay	TT Control Systems and Applications	Oral	October 22	M3 13:15-15:15
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WF-019135	Motor based on RBF Neural Network Method	TT Electrical Machines and Industrial Drives	Oral	October 22	M3 13:15-15:15
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WF-015989	Load Condition for IPMSM Drive System Without Passive Component	TT Electrical Machines and Industrial Drives	Oral	October 22	M3 13:15-15:15
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	algorithms for grid connected converters	TT Power Electronics Converters	Oral	October 22	M3 13:15-15:15
	Investigation of Different Balancing Methods for Modular 3-level T-type				
	Voltage Source Converters with Distributed DC-link Capacitors	TT Power Electronics Converters	Oral		M3 13:15-15:15
	Reduced Switch count 5-level Modules for Modular Multi-Level Converters	TT Power Electronics Converters	Oral	October 22	M3 13:15-15:15
1	Graph Theory-Based Power Routing in Modular Power Converters Considering				
WF-013587	Efficiency and Reliability	TT Power Electronics Converters	Oral	October 22	M3 13:15-15:15

WF-016659	Implementation Aspects of a Single Phase Boost PFC Converter	TT Power Electronics Converters	Oral	October 22	M3 13:15-15:15
	A Hybrid Power Quality Conditioner (HPQC) with Reduced DC-Link Voltage				
WF-006866	Rating for Microgrid Applications	TT Power Electronics Converters	Oral	October 22	M3 13:15-15:15
	Low-Voltage Ride-Through Operation of Permanent Magnet Synchronous				
WF-023426	Generator with Active and Reactive Power Injection	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Neural Generalized Predictive Control for Tracking Maximum Efficiency and				
WF-007994	Maximum Power Points of PEM Fuel Cell Stacks	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
WF-021946	Dynamic Power System Modeling for the Integration of Energy Storage	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Electro-thermal behavior of four fast charging protocols for a lithium-ion cell				
WF-027596	at different temperatures	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Supercapacitor Energy Delivery Capability During a Constant Power Discharge				
WF-008001	Process	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Design and optimization of a grid connected residential PV-system with				
WF-015504	Battery Energy Storage System	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Adaptative Droop Control for Balancing the State of Charge of Multiple Energy				
WF-030821	Storage Systems in Decentralized Microgrids	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Fuzzy-based energy management of a residential electro-thermal microgrid				
WF-006106	based on power forecasting	TT Renewable Energy and Energy Storage Systems	Oral	October 22	M3 13:15-15:15
	Real-time Adaptive Heuristic Control Strategy for Parallel Hybrid Electric				
WF-002453	Vehicles	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	A Robust Vision-based Lateral Control Scheme of Autonomous Vehicle with				
WF-026859	Uneven Time Delays	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	Noncooperative Distributed Social Welfare Optimization with EV Charging				
WF-022659	Response	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	Design and Analysis of Synchronous Reluctance Motor for Light Electric				
WF-028614	Vehicle Application	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	A Study of Fault-Tolerance for Electric Power Steering System with Safety				
WF-002313	Metric	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
WF-027413	Comparison of Meander Track Primary Topologies for EV Roadway Charging	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	Optimal trade-off between hard and soft-switching to achieve energy saving				
WF-023485	in industrial electric vehicles	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	A Solid State Transformer based Fast Charging Station for all Categories of				
WF-034649	Electric Vehicles.	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M3 13:15-15:15
	Self-triggered Consensus for High-order Multi-agent Systems Subject to Input				
WF-031852	Saturations	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
	Admissible leader-following consensus of fractional-order singular multi-agent				
WF-032328	system via observer-based protocol	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
	Asymptotic consensus tracking of uncertain multi-agent systems with a high-				
WF-032913	dimensional leader: A neuro-adaptive approach	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00

	Attitude trajectory planning and finite-time attitude tracking control for a				
	quadrotor aircraft	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
	Controllability analysis of transcriptional regulatory networks for				
	Saccharomyces cerevisiae	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
	Leader-following Consensus of a Class of Multi-agent Systems With				
WF-034053		SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
	A Parallel Model to Analyze Effectiveness of Peer Review for Academic				
WF-033502	Journals	SS Analysis and Synthesis of Networking Intelligent Systems	Oral	October 22	M4 15:45-18:00
WF-001724	Robot Companion for Industrial Process Monitoring Based on Virtual Fixtures	SS Close Proximity Human Robot Interaction	Oral	October 22	M4 15:45-18:00
WF-017248	Human-Robot Collaboration: Task sharing through Virtual Reality	SS Close Proximity Human Robot Interaction	Oral	October 22	M4 15:45-18:00
WF-026417	Human-Robot Collaboration with High-Payload Robots in Industrial Settings	SS Close Proximity Human Robot Interaction	Oral	October 22	M4 15:45-18:00
	Smart distribution of IT load in energy efficient data centers with focus on				
WF-005568	cooling systems	SS Efficiency of Modern Data Centers	Oral	October 22	M4 15:45-18:00
	Towards an Open Model for Data Center Research: from CPU to Cooling				
WF-015334	Tower	SS Efficiency of Modern Data Centers	Oral	October 22	M4 15:45-18:00
	Comparison of hard floor and raised floor cooling of servers with regards to				
WF-018724	local effects	SS Efficiency of Modern Data Centers	Oral	October 22	M4 15:45-18:00
	Detecting and modelling air flow overprovisioning / underprovisioning in air-				
	cooled datacenters	SS Efficiency of Modern Data Centers	Oral	October 22	M4 15:45-18:00
	Validated thermal air management simulations of data centers using remote				
WF-022233	graphics processing units.	SS Efficiency of Modern Data Centers	Oral	October 22	M4 15:45-18:00
		SS Emerging Converter Topologies and Control for High-Performance PV			
WF-034789	Buck-Boost Unfolder Inverter as a Novel Solution for Single-Phase PV systems	Systems	Oral	October 22	M4 15:45-18:00
	Novel LCL Filter for Non-Isolated Photovoltaic Inverters with CM Current	SS Emerging Converter Topologies and Control for High-Performance PV			
	Trapping Capability for Weak Grids	Systems	Oral	October 22	M4 15:45-18:00
	Digital low-pass-filter-based single-loop damping for LCL-filtered grid-tied	SS Emerging Converter Topologies and Control for High-Performance PV			
WF-015407	inverters	Systems	Oral	October 22	M4 15:45-18:00
	Zero-Voltage Ride-Through of Flexible Power Control Strategy in Single-Phase	SS Emerging Converter Topologies and Control for High-Performance PV			
	Grid-Connected Photovoltaic Inverters	Systems	Oral	October 22	M4 15:45-18:00
	Wear-Out Failure Analysis of Solar Optiverter Operating With 60- and 72-Cell	SS Emerging Converter Topologies and Control for High-Performance PV			
	Si Crystalline PV Modules	Systems	Oral	October 22	M4 15:45-18:00
	A Long-Lifespan Single-Phase Single-Stage Multi-Module Inverter for PV	SS Emerging Converter Topologies and Control for High-Performance PV			
WF-035564	· ·	Systems	Oral		M4 15:45-18:00
	A Simulation Framework for Validating Cellular V2X Scenarios	SS Emerging Solutions for Vehicular Embedded Systems	Oral		M4 15:45-18:00
WF-025763	A perspective on safety and real-time issues for GPU accelerated ADAS	SS Emerging Solutions for Vehicular Embedded Systems	Oral	October 22	M4 15:45-18:00
	Towards QoS-Aware Service-Oriented Communication in E/E Automotive				
WF-025844	Architectures	SS Emerging Solutions for Vehicular Embedded Systems	Oral	October 22	M4 15:45-18:00
	Towards Security Case Run-time Adaptation by System Decomposition into				
WF-025968	Services	SS Emerging Solutions for Vehicular Embedded Systems	Oral	October 22	M4 15:45-18:00

	Timing Analysis Driven Design-Space Exploration of Cause-Effect Chains in				
	Automotive Systems	SS Emerging Solutions for Vehicular Embedded Systems	Oral	October 22	M4 15:45-18:00
	System Level LET: Mastering Cause-Effect Chains in Distributed Systems	SS Emerging Solutions for Vehicular Embedded Systems	Oral		M4 15:45-18:00
	Survey of Proximity Based Authentication Mechanisms for the Industrial	,			
	Internet of Things	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral	October 22	M4 15:45-18:00
	A Modelling Approach for the Narrowband IoT (NB-IoT) Physical (PHY) Layer				
WF-021415	Performance	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral	October 22	M4 15:45-18:00
WF-021512	Smart Card Reader for Smartphone e-Commerce Applications	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral	October 22	M4 15:45-18:00
	Efficient Secure Access to IEEE 21451 based Wireless IIoT Using Optimized				
WF-036129	TEDS and MIB	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral	October 22	M4 15:45-18:00
	Virtual Synchronous Machine Control of VSC HVDC for Power System	SS HVDC Converters and Systems: Modelling, Control and Stability			
WF-035114	Oscillation Damping	Analysis	Oral	October 22	M4 15:45-18:00
	Frequency-Domain Modeling and Assessment of AC and DC Electromagnetic	SS HVDC Converters and Systems: Modelling, Control and Stability			
WF-021768	Stability in MMC-based VSC HVDC Links	Analysis	Oral	October 22	M4 15:45-18:00
		SS HVDC Converters and Systems: Modelling, Control and Stability			
WF-024376	Fidelity Requirements with Fast Transients from VSC-HVdc	Analysis	Oral	October 22	M4 15:45-18:00
WF-006548	Assisting the Configuration of Intelligent Safety Gateway	SS Networked Control and Its Applications	Oral	October 22	M4 15:45-18:00
	Multi-Constrained Routing Based on Particle Swarm Optimization and				
WF-032336	Fireworks Algorithm	SS Networked Control and Its Applications	Oral	October 22	M4 15:45-18:00
	A proposed Formation Control Algorithm for Robot Swarm based on Adaptive				
WF-016365	Fuzzy Potential Field Method	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Fault Detection for Uncertain Delta Operator Systems with Two-channel				
WF-003824	Packet Dropouts via Switched Systems Approach	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
WF-028886	Building Strategies for Replicated IEC 61499 Industrial Applications	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	A High-efficiency PMSM Sensorless Control Approach Based on MPC				
WF-006173	Controller	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Human Machine Interface Prototyping and Application for Advanced Control				
WF-030171	of Offshore Topside Separation Processes	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
WF-021687	Forced Bipartite Consensus for Multi-Agent Systems	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Discrete-time Sliding Mode Control for Leader Following Discrete-time Multi-				
WF-006653	Agent System	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Robust Control for a Magnetically Suspended Control Moment Gyro with				
WF-019593	Strong Gyroscopic Effects	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Engine Controller using Implicit Fault-avoidance Learning of Control				
WF-002976	Parameters for Mixed-fuel Combustion	TT Control Systems and Applications	Oral	October 22	M4 15:45-18:00
	Modeling Torque Characteristics and Control of a Single-Phase DC-Excited				
WF-005924	Flux Switcing Machine for Torque Ripple Reduction	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
	Non-smooth Control of PMSM Position Servo System Based on Model				
WF-028584	Compensation	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00

	Moving Horizon Estimator of PMSM Nonlinearities	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
	Output Feedback Disturbance Rejection Control for DC-DC Buck Converter-DC				
WF-012882	Motor System Subject to Unmatched Load Torques	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
WF-018309	Electric Vehicle Powertrain Multiphysics NVH Simulation	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
	A New Multiphase Rotor Model for the Squirrel Cage Rotor of a Six-phase				
	Induction Machine	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
WF-022462	Dynamic Modeling of an Integrated Flywheel Energy Storage System	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
	Influence of Air-Gap Length on the Performance of a Three-phase Induction				
WF-028266	Motor with a Capacitive Auxiliary Stator Winding	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
	Sensorless Starting Control of Permanent Magnet Synchronous Motors with				
WF-029173	Step-up Transformer for Downhole Electric Drilling	TT Electrical Machines and Industrial Drives	Oral	October 22	M4 15:45-18:00
WF-030864	Kidnapping and Re-Localizing Solutions for Autonomous Service Robotics	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	On hands-off trajectory generation for a two-wheeled rover based on L1/L2-				
WF-006017	optimal control	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
WF-011908	Continuum Robot Control Based on Virtual Discrete-Jointed Robot Models	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
WF-017841	A nonlinear optimal control approach for the spherical robot	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
WF-030031	New Design and Development of Reconfigurable-Hybrid Hexapod Robot	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	Energy Regeneration-Based Hybrid Control for Transfemoral Prosthetic Legs				
WF-027758	Using Four-Bar Mechanism	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	Formation Control of Unicycle Mobile Robots using Cluster Space Approach in				
	Dynamic Environments	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	Semi-Automatic Registration of a Robotic Total Station and a CAD Model				
WF-005312	Without Dedicated Control Points	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	Flight Path Planning of Multiple UAVs for Robust Localization near				
WF-021482	Infrastructure Facilities	TT Mechatronics and Robotics	Oral	October 22	M4 15:45-18:00
	Logic-Equations Method for Active Voltage-Control of a Flying-Capacitor				
WF-023868	Multilevel Converter Topology	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
WF-018325	Design Optimization of a 100 kVA SiC Power Conversion System	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
WF-016438	Reliability Analysis of a Novel Fault Tolerant Multilevel Inverter Topology	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
	PV Array Energized Standalone Water Pumping System Using Dual Output SE-				
WF-014788	CuCC Converter	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
WF-027634	Multilevel Inverter Topology for Switching Loss Reduction	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
WF-002992	Direct duty ratio control of connected converter in DC microgrid	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
	Actively Damped PI-based Control Design of Grid-Connected Three-Level VSC				
WF-015784	with LCL Filter	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
	Energy Recovery of the Linear Amplifier in the Parallel-Form Switch-Linear				
WF-001082	Hybrid Envelope Tracking Power Supply	TT Power Electronics Converters	Oral	October 22	M4 15:45-18:00
	Analysis and Design of the Class-\$\Phi _2\$ Inverter	TT Power Electronics Converters	Oral		M4 15:45-18:00
	Resilient Agent for Power System Operations and Protection	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00

	NeuralWave: Gait-based User Identification through Commodity WiFi and				
WF-032174	Deep Learning	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00
	Performance-Based Cyber Resilience Metrics: An Applied Demonstration	,			
1	Toward Moving Target Defense	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00
	Multi-Agent Protection Scheme for Resilient Microgrid Systems with	·			
WF-035874	Aggregated Electronically Coupled Distributed Energy Resources	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00
WF-036137	Power Grid Resiliency Improvement Through Remedial Action Schemes	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00
WF-037184	Generalization of Deep learning for Cyber-Physical System Security: A Survey	TT Resilient Control Architectures and Systems for Energy	Oral	October 22	M4 15:45-18:00
	Novel Active Rectification for Extended ZVS Operation of Bidirectional Full				
WF-010405	Bridge DC/DC Converter for Energy Storage Application	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Design and Control of a Floating Interleaved Boost DC-DC Converter for Fuel				
WF-007706	Cell Applications	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Health Monitoring Scheme for Submodule Capacitors in Modular Multilevel				
WF-004987	Converter Utilizing Capacitor Voltage Fluctuations	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Design and Simulation of an On-board Integrated Charger using Cell Bypass				
1	Balancing Circuit for Electric Vehicles	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Proposal of Soft SOC Balancing Method to Two Battery HEECS Chopper Used				
WF-016861	for EV Power Train	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Intermittent Pulse Density Modulation of Two Battery HEECS Chopper for				
WF-012025	Electric vehicles	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	Modular multilevel converter based topology for electric locomotive with				
WF-016411	medium frequency step-down transformer	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
WF-017221	Output dv/dt Filter Design and Characterization for a 10 kW SiC Inverter	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
WF-013722	Smart Integrated Charger with Wireless BMS for EVs	TT Transportation Electrification and Automotive Technologies	Oral	October 22	M4 15:45-18:00
	A Smart Battery Charger Based on a Cascaded Boost-Buck Converter for				
WF-005711	Photovoltaic Applications	SS Advanced Techniques for Smart Home and Prosumers	Oral	October 23	T1 08:00-09:00
	A Power Quality Indexes Measurement System Platform with Remote Alarm				
	Notification	SS Advanced Techniques for Smart Home and Prosumers	Oral	October 23	T1 08:00-09:00
WF-032611	Framework for modeling and simulation of household appliances	SS Advanced Techniques for Smart Home and Prosumers	Oral	October 23	T1 08:00-09:00
WF-036803	A deep learning based method for heat pump dryer user classification	SS Advanced Techniques for Smart Home and Prosumers	Oral	October 23	T1 08:00-09:00
	EKF for Power Estimation of Uncertain Time-varying CPLs in Shipboard DC				
WF-000914		SS DC Shipboard Power Systems for the Future All Electric Ships	Oral	October 23	T1 08:00-09:00
	Port-Hamiltonian Modelling and Control of Single Phase DAB based MVDC				
WF-019232	Shipboard Power System	SS DC Shipboard Power Systems for the Future All Electric Ships	Oral	October 23	T1 08:00-09:00
	Achieving protection selectivity in DC shipboard power systems employing				
	additional bus capacitance	SS DC Shipboard Power Systems for the Future All Electric Ships	Oral		T1 08:00-09:00
WF-037044	Data-Driven Control of Converters in DC Microgrids for Bus Voltage	SS DC Shipboard Power Systems for the Future All Electric Ships	Oral	October 23	T1 08:00-09:00
	Characterization and Modeling of Low-Cost Contact-Mode Triboelectric				
WF-003212	Devices for Energy Harvesting	SS Energy Harvesting for The Industrial IoT	Oral	October 23	T1 08:00-09:00

WF-009229	Force Transmission Interfaces for Pressure Fluctuation Energy Harvesters	SS Energy Harvesting for The Industrial IoT	Oral	October 23	T1 08:00-09:00
	Vibration Energy Harvesting Powered Wireless Sensor Network for Structural				
WF-010278	Health Monitoring	SS Energy Harvesting for The Industrial IoT	Oral	October 23	T1 08:00-09:00
	Energy Harvesting Circuit for Road Speed Bumps Using a Piezoelectric				
WF-028169		SS Energy Harvesting for The Industrial IoT	Oral	October 23	T1 08:00-09:00
	Detection of the body schema modification induced by a visual-proprioceptive				
WF-001619	mismatch	SS Recent Progress in Human Factors	Oral	October 23	T1 08:00-09:00
	Development of the agricultural support system based on proposal actions				
WF-003808	and farmland informations	SS Recent Progress in Human Factors	Oral	October 23	T1 08:00-09:00
WF-015105	Standing assistance with non-verbal cues based on intended movement	SS Recent Progress in Human Factors	Oral	October 23	T1 08:00-09:00
	Development of a Finger Force Distribution Measurement System for Hand				
WF-026727	Dexterity	SS Recent Progress in Human Factors	Oral	October 23	T1 08:00-09:00
	Prediction of Short-Term Voltage Instability Using a Digital Faster Than Real-	SS Smart Automation, Control and ICT Concepts Applied to Power and			
WF-029203	Time Replica	Energy Systems	Oral	October 23	T1 08:00-09:00
	On Automated Co-Simulation Testing of Functional Requirements for	SS Smart Automation, Control and ICT Concepts Applied to Power and			
WF-034983	Distributed Substation Automation Systems	Energy Systems	Oral	October 23	T1 08:00-09:00
	Towards Model-driven Development of Hybrid Simulation Models in Industrial	SS Smart Automation, Control and ICT Concepts Applied to Power and			
WF-036536	Engineering	Energy Systems	Oral	October 23	T1 08:00-09:00
	Integrated Networked Streetlighting Infrastructure Simulation with Crossing	SS Smart Automation, Control and ICT Concepts Applied to Power and			
WF-037109	as Use Case	Energy Systems	Oral	October 23	T1 08:00-09:00
WF-028878	Fault-tolerance Implementation for IEC 61499 Applications	TT Control Systems and Applications	Oral	October 23	T1 08:00-09:00
	Robust Composite Non-linear Feedback Control For Descriptor Systems With				
WF-019186	General Reference Tracking	TT Control Systems and Applications	Oral	October 23	T1 08:00-09:00
	An LMI-based Design Method of a Variable Gain Robust Controller Giving				
	Consideration to Nominal L2 Gain Performance and Allowable Uncertainty				
WF-022802	Region for a Class of Uncertain Linear Systems	TT Control Systems and Applications	Oral	October 23	T1 08:00-09:00
	Discrete Time Intermittent Sliding Mode Control With Multirate Output				
WF-020303	Feedback	TT Control Systems and Applications	Oral	October 23	T1 08:00-09:00
	UPQC-Based High Precision Impedance Measurement Device and its				
WF-028762	Switching Control Method	TT Power Electronics Converters	Oral	October 23	T1 08:00-09:00
	An Approach to Unified Full-order Modeling of Dual Active Bridge Type				
WF-028789	Converters	TT Power Electronics Converters	Oral	October 23	T1 08:00-09:00
	An Improved Physics-based LTSpice Compact Electro-Thermal Model for a SiC				
WF-015717	Power MOSFET with Experimental Validation	TT Power Electronics Converters	Oral	October 23	T1 08:00-09:00
WF-006769	Energy Savings with LQR Control of DC/DC converters	TT Power Electronics Converters	Oral	October 23	T1 08:00-09:00
	Torque-sensorless Control for a Powered Exoskeleton Using Highly Back-				
	drivable Actuators	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Autonomous Grading Work Using Deep Reinforcement Learning Based				
WF-008427		SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45

	Using a Nonlinear Disturbance Observer to Estimated the Human Force				
	Applied to a Two-wheeled Cane For Walking Assistance	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Design of A Multi-stage Stiffness Enhancing Unit for a Soft Robotic Finger and	The state of the	10.0.	000000: 20	
	its Robust Motion Control	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Filtered Disturbance Observer for High Backdrivable Robot Joint	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral		T2 09:30-11:45
	Estimation of Relationship between Stimulation Current and Force Exerted	,			
1	during Isometric Contraction	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Position and Torque Sensorless Motion Transmission Using Parameter	,			
WF-032115	Identification Based on Least Mean Squares Method	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Task-Based Control and Human Activity Recognition for Human-Robot	·			
WF-032956	Collaboration	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Rationale for researching in DOB/OC-based rehabilitation robots: simulation				
WF-034223	results	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral	October 23	T2 09:30-11:45
	Design and Analysis of Single-phase Adaptive Passive Part coupling Hybrid				
WF-004693	Active Power Filter (HAPF)	SS Advanced Power Quality Conditioning Systems	Oral	October 23	T2 09:30-11:45
	DC-Link Voltage Reduction Design Method for Three-Phase Four-Wire LC-				
	Hybrid Active Power Filters Under Reactive and Unbalanced Current				
WF-006025	Compensation	SS Advanced Power Quality Conditioning Systems	Oral	October 23	T2 09:30-11:45
	Design and Analysis of a New Model High-frequency 3-phase Static				
WF-010057	Distributed Compensator (HFDSC)	SS Advanced Power Quality Conditioning Systems	Oral	October 23	T2 09:30-11:45
	Study of Reactive Power Compensation Capabilities and LC Filter Design for a				
WF-036765	Multilevel Three-Phase Current-Source D-STATCOM	SS Advanced Power Quality Conditioning Systems	Oral	October 23	T2 09:30-11:45
WF-033081	Learning Experiences Involving Digital Twins	SS Aspects of Digital Twins for Power Electronics and Energy Systems	Oral	October 23	T2 09:30-11:45
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WF-017299	STATCOM	Voltage Electric Grid Performance	Oral	October 23	T2 09:30-11:45
		SS Power Electronics Based New Techniques for Improving Medium			
WF-017698	Low-Capacitance StatCom with Thyristor Switched Filter Inductor	Voltage Electric Grid Performance	Oral	October 23	T2 09:30-11:45
		SS Power Electronics Based New Techniques for Improving Medium			
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1	Development of a Manufacturing Equipment for a Concavo-Convex Pattern				
	Sheet to Protect Fruits	SS Recent Progress in Human Factors	Oral		T2 09:30-11:45
	Consideration of Landscape Recognition for Topological Localization	SS Recent Progress in Human Factors	Oral		T2 09:30-11:45
	Predicting a Pedestrian Trajectory Using Seq2Seq for Mobile Robot Navigation	_	Oral		T2 09:30-11:45
	A Support System for Gross Motor Assessment of Preschool Children	SS Recent Progress in Human Factors	Oral	October 23	T2 09:30-11:45
1	A Multi-Source Wind Speed Fusion Method for Wind Power Prediction based		1.		
WF-016314	on kNN-SVR	SS Recent Progress in Human Factors	Oral	October 23	T2 09:30-11:45

	Position Estimation of the Drone based on the Tensile Force of Cooperatively				
WF-023981	Towed Tube - In case of cooperative towing by two hovering two drones -	SS Recent Progress in Human Factors	Oral	October 23	T2 09:30-11:45
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WF-032166	Sheet Ironing Machine	SS Recent Progress in Human Factors	Oral	October 23	T2 09:30-11:45
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WF-034193	Wheelchair	SS Recent Progress in Human Factors	Oral	October 23	T2 09:30-11:45
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WF-017175	Grid	Distribution Grids	Oral	October 23	T2 09:30-11:45
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	General Space Vector Modulation of A High-Frequency AC Linked Universal	SS Smart Transformer: Design, Control and Impact on Future			
WF-036161	Converter for Distributed Generations	Distribution Grids	Oral	October 23	T2 09:30-11:45
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WF-036331	Multi-port Power Conversion Systems for the More Electric Aircraft	Distribution Grids	Oral	October 23	T2 09:30-11:45
WF-004138	Transferred Power Leveling/Energy Maximization in Dynamic WPT Systems	SS Wireless Power Transfer	Oral	October 23	T2 09:30-11:45
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WF-008893	Wireless Power and Data Transmission	SS Wireless Power Transfer	Oral	October 23	T2 09:30-11:45
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WF-016357	MPPT mode and DC Bus Stabilization for Lunar Rover	SS Wireless Power Transfer	Oral	October 23	T2 09:30-11:45
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WF-024775	Human-like and Bird-like Leg Models	TT Mechatronics and Robotics	Oral	October 23	T4 15:45-18:00
	Path Planning using Model Predictive Controller based on Potential Field for				
WF-020117	Autonomous Vehicles	TT Mechatronics and Robotics	Oral	October 23	T4 15:45-18:00
	A Novel Controller for Power Decoupling in a Single-Phase Grid-Tied Inverter				
WF-010073	Using a Boost Converter Buffer	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Modular Multilevel Converter for Multifunctional Battery Management				
WF-036064	System of Electric Vehicle	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	An Exact Time Domain Analysis of DCM Boost Mode LLC Resonant Converter				
WF-021458	for PV applications	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Single Switch Open-Circuit Fault Detection for Three-Level NPC Inverter Using				
WF-031488	Conducted Emissions Signature	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Design strategy and simulation of medium-frequency transformers for a three-				
WF-015326	phase dual active bridge	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Controller-Hardware-in-the-Loop Testbed for Fast Switching SiC based 50 kW				
WF-019089	PV Inverter	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Adaptive and Predictive Control for Operating an Electronic Ballast HID-MH				
WF-012998	Lamp System without Acoustic Resonances	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
	Backstepping Control of a DC-DC Boost Converters Under Unknown				
1	Disturbances	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
WF-000663	The Hybrid Control Strategy for The Wide Input of The LLC Converter	TT Power Electronics Converters	Oral	October 23	T4 15:45-18:00
WF-014362	Voltage Mode Control of Single-Phase Boost Inverter in dq Reference Frame	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Modeling of the Power Losses due to Coss in SJ MOSFETs Submitted to ZVS:				
WF-018651	Identification of the Passive Parameters by a Genetic Algorithm	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45

	Steady-state equivalent circuit of LED bulbs accounting for the current				
WF-019518	· · · · · · · · · · · · · · · · · · ·	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	An Investigation into the Thermal Benefits of Multilevel Converters	TT Power Electronics Converters	Oral Interactive		
	Power factor correction and DC voltage control limits for arc welding				
1	application using pulsed current	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Nonlinear Control for Power Factor Correction of a Dual-Boost Bridgeless				
WF-020184		TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Research of Low Inductance Loop Design in GaN HEMT Application	TT Power Electronics Converters	Oral Interactive		
	Optimal sizing of a power electronic traction transformer for railway				
WF-003816	applications	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Research on Overcurrent Detection and Protection of High-Power SiC MOSFET				
WF-002089		TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Online Switch Open-Circuit Fault Diagnosis Using Reconfigurable Scheduler				
WF-005193	for Modular Multilevel Converter with Parallel Connectivity	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Grid-Interactive Dual-Paralleled Buck/Boost Converter	TT Power Electronics Converters	Oral Interactive		
	A New Nine-Level Voltage Source Inverter with Capacitor Voltage Balancing	TT Power Electronics Converters	Oral Interactive		
	A PIN Diode Model Based on Moving Mesh Method for Circuit Simulation	TT Power Electronics Converters	Oral Interactive		
	A Multi-Source Energy Harvesting System From Automobiles to				
1	Microcontrollers	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Photovoltaic and Energy Storage Grid Integration with Fully Modular				
WF-035734	Architecture using Triple Port Active Bridges and Cascaded H-Bridge Inverter	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Boost Multi-port Converter with Simultaneous Isolated DC, Non-isolated DC				
WF-019305	and AC Outputs	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Study of Adaptive Hybrid Off-grid Inverter with Low DC-link Voltage and				
WF-005878	Active Part Rating	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Analysis of DC-Link Voltage Ripple in Voltage Source Inverters without				
WF-011932	Electrolytic Capacitor	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Loss Evaluation of Cascaded H-bridge and Modular Multilevel Converter for				
WF-028835	Motor Drive Applications	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	A Level-Increment Circuit for Multilevel Inverter based on Cross-Connected				
WF-015032	Sources	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	A Semi-Two-Stage H5 Inverter with Improved Efficiency and Low Leakage				
WF-002585	Current	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Test bench and data analysis towards an on-line Health Monitoring for				
WF-013781	emerging power modules	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Small-Signal Modeling and Analysis of VSM for Distributed Generation in a				
WF-021822		TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Dead-Time Analysis of a Universal SiC-GaN-Based DC-DC Converter for Plug-In				
WF-023337	Electric Vehicles	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45

WF-022403	Railway Traction Supply for Power Quality Issue	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
WF-021784	A Novel Five-Level Semi-Bridgeless Power Factor Correction Topology	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Research on a novel DSTATCOM topology and its control strategy	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Real time realization of highly reliable Cascaded Full-bridge Interleaved Buck				
1	Inverter based APF using T1FLC id-iq Control Strategy	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Frequency Control Using V2G and Synchronous Power Controller based HVDC				
1	Links in Presence of Wind and PV Units	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
	Analysis of Variable Frequency Control for Dual-Input Switched-Capacitor				
1	Networks Converter	TT Power Electronics Converters	Oral Interactive	October 21	S2 09:15-11:45
002000		SS Advances in Data-Driven Process Monitoring and Control for Complex		000000: 22	02 03 12 22 13
WF-008974	Fault Diagnosis and Prevention of Flow Sensor for Fuel Supply System	Industrial Systems	Oral Interactive	October 21	S3 13·15-15·15
	Design of a Performance-Driven Control System based on the Control	SS Advances in Data-Driven Process Monitoring and Control for Complex		000000122	33 13:13 13:13
WF-034517	•	Industrial Systems	Oral Interactive	October 21	S3 13·15-15·15
	Data Fusion Methods for Convolutional Neural Network Based on Self-sensing	•		0000001 21	33 13.13 13.13
1	Motor Drive System	Industrial Systems	Oral Interactive	October 21	C2 12·15 ₋ 15·15
	Optimization of self bearing induction motor drive	SS Control of Multiphase Drive Systems	Oral Interactive		
	Simplified Predictive Torque Control of Five Phase Permanent Magnet Motor	33 Control of Multipliase Drive Systems	Oral Interactive	October 21	33 13.13-13.13
1	with Non-sinusoidal Back-EMF	SS Control of Multiphase Drive Systems	Oral Interactive	October 21	C2 12:15 15:15
		·			
	Performance Analysis of PMSM Drive using Ant Colony Optimization	SS Control of Multiphase Drive Systems	Oral Interactive	October 21	53 13:15-15:15
1	Analysis Of An Application Of The Extended Electromotive Force Model Based				
1	Position Sensorless Control On The Wound-Field Synchronous Motor With				50 40 45 45 45
	Dual-Three Phases In Standstill/Low Speed Region	SS Control of Multiphase Drive Systems	Oral Interactive	October 21	53 13:15-15:15
1	Comparison of Model Predictive Control Strategies for Six-Phase Permanent				
	Magnet Synchronous Machines	SS Control of Multiphase Drive Systems	Oral Interactive	October 21	S3 13:15-15:15
	Autonomous Robot Navigation in Diverse Terrain Using a Fuzzy Evolutionary				
WF-025178	•	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
	Robotic Obstacle Avoidance for Visual Navigation based on Local Descriptors				
	and Feasible Path	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive		
	A Brief Review on Robotic Floor-tiling	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
1	Feature Regions Segmentation based RGB-D Visual Odometry in Dynamic				
	Environment	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
	Adaptive Backstepping Control For An Underwater Vehicle Manipulator				
	System Using Fuzzy Logic	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
	Development of Nano UAV Platform for Navigation in GPS-Denied				
WF-018643	Environment Using Snapdragon	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
WF-022284	Cooperative Search of Multiple Robots with A Distributed Algorithm	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15
	L1 Gain Control of the Skeleton Post-Stroke Rehabilitation Robot's Wrist Joint				
WF-025712	Subject to Magnitude, Rate and Output Saturation	SS Intelligent Control and Motion Planning in Robotic Systems	Oral Interactive	October 21	S3 13:15-15:15

	Development of a semi-automatic 3D modeling system for phenotyping				
WF-034495	morphological traits in plants	SS Intelligent Sensing Applications for Human Assistive Systems	Oral Interactive	October 21	S3 13:15-15:15
	Real-Time Foot Clearance and Environment Estimation based on Foot-				
WF-034118	Mounted Wearable Sensors	SS Intelligent Sensing Applications for Human Assistive Systems	Oral Interactive	October 21	S3 13:15-15:15
	Tracking Control Method Considering Obstacle Avoidance by Reflective				
	Motion for Mobile Robot	SS Intelligent Sensing Applications for Human Assistive Systems	Oral Interactive	October 21	S3 13:15-15:15
	A Stereo Camera Based Static and Moving Obstacles Detection on				
WF-034584	Autonomous Visual Navigation of Indoor Transportation Vehicle	SS Intelligent Sensing Applications for Human Assistive Systems	Oral Interactive	October 21	S3 13:15-15:15
	Load forecasting using statistical time series model in a medium voltage	SS Modeling, Management and Control of Energy Storage Systems in			
WF-029068	distribution network	Electric Vehicles	Oral Interactive	October 21	S3 13:15-15:15
	Optimal Scheduling for PV-Assited Charging Station Considering the Battery	SS Modeling, Management and Control of Energy Storage Systems in			
WF-031844	Life of Electric Vehicles	Electric Vehicles	Oral Interactive	October 21	S3 13:15-15:15
	Voltage Mode Controller Design and Experimental Verification of a Three-	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-012653	Phase Capacitive-coupling Grid Connected Inverter in PV system	Control	Oral Interactive	October 21	S3 13:15-15:15
	Distributed Control and Redundancy for Input-Series-Output-Series LCL-Type	SS Multi-Functional Grid Connected Converters: Design, Operation and			
WF-019682	Grid-Connected Inverter System	Control	Oral Interactive	October 21	S3 13:15-15:15
	SAW: A Hybrid Prediction Model for Parking Occupancy under the				
WF-010774	Environment of Lacking Real-time Data	TT Cloud Computing, Big Data, Industrial Informatics	Oral Interactive	October 21	S3 13:15-15:15
WF-036439	A framework for evaluating security in multi-cloud environments	TT Cloud Computing, Big Data, Industrial Informatics	Oral Interactive	October 21	S3 13:15-15:15
	AdaBoost-SVM for Electrical Theft Detection and GRNN for Stealing Time				
WF-002895	Periods Identification	TT Cloud Computing, Big Data, Industrial Informatics	Oral Interactive	October 21	S3 13:15-15:15
	A New Algorithm to Automatic Extraction of Clusters Using Eccentricity and				
WF-025917	Typicality Analysis	TT Cloud Computing, Big Data, Industrial Informatics	Oral Interactive	October 21	S3 13:15-15:15
	New hybrid mode current controller with fast response without sub-harmonic				
WF-006955		TT Power Electronics Converters	Oral Interactive	October 21	S3 13:15-15:15
	Smart controller design for safety operation of the MEA electrical distribution				
WF-015547		SS Power Electronics for the More Electric Aircraft	Oral Interactive	October 21	S4 15:45-18:00
	Sensitivity Analysis for the DC Electrical Power Distribution System of the				
	More Electric Aircraft	SS Power Electronics for the More Electric Aircraft	Oral Interactive	October 21	S4 15:45-18:00
	Reduction of the parasitic couplings in the EMI filters to improve the high				
	frequency insertion loss	SS Power Electronics for the More Electric Aircraft	Oral Interactive		
	Charging Techniques in Lithium-Ion Battery Charger: Review and New	SS Power Electronics for the More Electric Aircraft	Oral Interactive	October 21	S4 15:45-18:00
	Three-Legged Converter for Dynamic Wireless Power Transfer	SS Wireless Power Transfer	Oral Interactive		
	Magnetic Coupling Positioning Using Simultaneous Power and Data Transfer	SS Wireless Power Transfer	Oral Interactive	October 21	S4 15:45-18:00
	SS and SP Topology Analysis for Capacitive Power Transfer with Resonance				
	Coupling Based on Power Factor Consideration	SS Wireless Power Transfer	Oral Interactive		
	Luxating Inverter for an Inductive Power Transfer System	SS Wireless Power Transfer	Oral Interactive	October 21	S4 15:45-18:00
1	Consensus Based Robust Adaptive Finite-time Tracking for Second-order				
WF-025909	Nonlinear Multi-agent Systems	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00

	Load Mitigation and Power Regulation of Offshore Wind Turbines Using Multi-				
WF-026581	Objective Model Predictive Control	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
	Modeling and Control of Fuel Cell Power System with Varying Load and	·			
1	Temperature	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
	Two-channel periodic event-triggered observer-based repetitive control for				
WF-030961	periodic reference tracking	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
	Phase Trajectory Analysis of Non-singular Terminal Sliding Mode Controlled				
1	Flexible Manipulato	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
	Unknown Input Observer-Based Robust Sensor Fault Estimation in Discrete-				
WF-009563	Time Takagi-Sugeno Systems	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
WF-014729	Sliding Mode combined VSG Control to Microgrid Inverters	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
WF-020001	Control of a Hydraulic Elevator with a Variable-Speed Pump	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
WF-020052	Energy-Optimal Single-Axis Motion Trajectories	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
	Input Correction Control of State Constrained Nonlinear System by Using				
WF-024252	Revived Transformation	TT Control Systems and Applications	Oral Interactive	October 21	S4 15:45-18:00
WF-036218	Hardware Assisted Security Architecture for Smart Grid	TT Cyber Physical Systems and Internet of Things in Industry	Oral Interactive	October 21	S4 15:45-18:00
	An EKF Based Tracking Loop Filter Algorithm in GNSS Receiver for Ultra High				
WF-031461	Dynamic Environment: The Experiment Results	TT Electronic Systems On Chip and Embedded Systems	Oral Interactive	October 21	S4 15:45-18:00
WF-033952	Design of a test bed for teaching/research purposes in PHEVs	TT Industrial Electronics and Education	Oral Interactive	October 21	S4 15:45-18:00
	Healing Effects by 1/f Fluctuating Vibration - Applications of voice-coil-type				
WF-018244	vibrator -	TT Sensors, Actuators and Micro-Nanotechnology	Oral Interactive	October 21	S4 15:45-18:00
	Opportunities for power converters, motors and drives for electrification of				
WF-008249	mobile vehicles	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	Design and Testing of PMSM for Aerospace EMA Applications	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
WF-026441	A Novel Multi-Objective Off-Board EV Charging Station for Smart Homes	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	New Predictive Control Method for Optimal Minimization of Plug-in Electric				
WF-026794	Vehicle (PEV) Charging Cost with Vehicle-to-Home (V2H) capability	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	Optimal Charging of Plug-in Electric Vehicle (PEV) in Residential Area	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	Branch Energy Control of the Three-Phase to Single-Phase Direct AC-AC				
WF-006742	Modular Multilevel Converter Under Equal Frequency Operation Condition	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	LIN Bus Security Analysis	TT Transportation Electrification and Automotive Technologies	Oral Interactive	October 21	S4 15:45-18:00
	Development of an IoT System with Smart Charging Current Control for	SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-020257	Electric Vehicles	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
		SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-021598	Continuous User Authentication in Smartphones using gait analysis	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
		SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-025003	Packet loss analysis for LoRa-based heart monitoring system	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
		SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-025011	Charing Infrastructure Planning for Giant Cities	and Smart City	Oral Interactive	October 22	M2 09:30-11:45

		SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-026085	Analysis of IoT-enabled Solutions in Smart Waste Management	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
	,	SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-031976	A Survey on Vehicle Security Systems: Approaches and Technologies	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
		SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-035106	Smart Comm: A Smart Home Middleware Supporting Information Exchange	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
	Analysis of Machine Learning Techniques to Identify and Classify Traffic in	SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-036714	Software Defined Wireless Sensor Networks: A Survey	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
	Programmable Node in Software-Defined Wireless Sensor Networks: A	SS Emerging Wireless Solutions and Applications for Internet-of-Things			
WF-025259	Review	and Smart City	Oral Interactive	October 22	M2 09:30-11:45
WF-001503	Human-robot interaction system for micromanipulation assistance	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Geometrical Feature Based Stairways Detection and Recognition using Depth				
WF-005541	Sensor	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-005851	Wearable Thermal Interface for Sharing Palm Heat Conduction	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-006254	Advanced Assistance Systems in the Process Industry: A Classification Attempt	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Verification of the Knee Exoskeleton Controller Using Novel Gait Phase				
WF-011312	Detection Method	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-016152	Action recognition based on sequential 2D-CNN for surveillance systems	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-016187	Dynamic 3D Surface Reconstruction Using a Hand-Held Camera	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Smart heating system for home extending utilization of renewable energy				
WF-022039		SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-022306	Towards Contactless, Hand Gestures-Based Control of Devices	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Road Condition Evaluation using Fusion of Multiple Deep Models on Always-				
	on Vision Processor	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
WF-037133	An Adversarial Approach for Explainable AI in Intrusion Detection Systems	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Improving User Trust on Deep Neural Networks based Intrusion Detection				
WF-037192	Systems	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Multi-Person Pose Estimation With Human Detection: A Parallel Approach	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Standing-Up Control of a Fallen Humanoid Robot Based on the Ground-				
	contacting State of the Body	SS Human-System Interaction in Smart Environments	Oral Interactive		
	Smart weighing scale with feet-sampled ECG	SS Human-System Interaction in Smart Environments	Oral Interactive	October 22	M2 09:30-11:45
	Switch On/Interruption Control of Cooling Based on Estimated Acceptable				
	Interruption Duration: An Office Case Study in Japan	TT Smart Building Technologies			M2 09:30-11:45
WF-007005	Ontology-based Optimization of Building Automation Systems	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45
	Transient Event Classification based on Wavelet Neuronal Network and				
	Matched Filters	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45
	A Human Factors Study to Update a Recently Proposed Manual Blind Use				
WF-029955	Algorithm for Energy and Daylight Simulations	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45

	Calibration of White-Box Whole-Building Energy Models Using a Systems-				
1	Identification Approach	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45
	Developing a Process for Continuous Commissioning	TT Smart Building Technologies			M2 09:30-11:45
	Information Integration and Semantic Interpretation for Building Energy	Transition of the state of the	Ordi interdetive	OCTOBEL 22	1012 03.30 11.43
	System Operation and Maintenance	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45
	Impact of emerging technologies on Facility Services - A mixed-methodic	Tri Smart Banding recimologies	Oral interactive	October 22	1012 03.30 11.43
	approach on Smart Building Technologies	TT Smart Building Technologies	Oral Interactive	October 22	M2 09:30-11:45
	A New Asymmetrical Cascaded Multilevel Inverter with Reduced Number of	SS Advanced Multilevel Converters with DC Capacitors: Modulation,	Oral interactive	October 22	1012 03.30-11.43
	Components	Voltage Balancing, and Their Control Strategies.	Oral Interactive	Octobor 22	M3 13:15-15:15
	A Product Platform Architecture for Cloud Manufacturing	SS Cloud Manufacturing			M3 13:15-15:15
	An OSGi-based Adaptation Access of Machine Tool in the Cloud	33 Cloud Manufacturing	Oral interactive	October 22	IVIS 15.15-15.15
1	Manufacturing Environment	SS Cloud Manufacturing	Oral Interactive	Ostobor 22	M3 13:15-15:15
	The Model Construction of Multi-Objective Job Shop Based on Data	55 Cloud Manufacturing	Oral Interactive	October 22	IVIS 13.15-15.15
1	·	CC Cloud Manufacturing	Onel Internetive	Ostobor 22	M3 13:15-15:15
1	Information Performance evaluation of the empirical method for online detection of	SS Cloud Manufacturing	Oral Interactive	October 22	IVI3 13:15-15:15
1	·	SS HVDC Converters and Systems: Modelling, Control and Stability		0.1.122	112 42 45 45 45
	power oscillations: a multiterminal HVDC application	Analysis	Oral Interactive	October 22	M3 13:15-15:15
1	Analysis of MMC Dynamics in dqz Coordinates for Vertical and Horizontal	SS HVDC Converters and Systems: Modelling, Control and Stability		0	
	Energy Balancing Control	Analysis	Oral Interactive	October 22	M3 13:15-15:15
1	An AC-AC Modular Multilevel Converter-based Partially-Rated Solid-State				
1	Transformer for Power Flow Control	SS Modular Multilevel Converters and Applications	Oral Interactive	October 22	M3 13:15-15:15
	Control of A Modular Multilevel Cascaded Converter based Unified Power				
	Flow Controller	SS Modular Multilevel Converters and Applications			M3 13:15-15:15
	Design and Cost Analysis for STATCOM in Low and Medium Voltage Systems	SS Modular Multilevel Converters and Applications	Oral Interactive	October 22	M3 13:15-15:15
	H-infinity Filtering for Networked Control Systems with Two-channel Packet				
	Dropouts and Mixed Random Delays using Delta Operator	SS Networked Control and Its Applications			M3 13:15-15:15
	Multi-constrained routing optimization algorithm based on DAG	SS Networked Control and Its Applications	Oral Interactive	October 22	M3 13:15-15:15
	Low Cost and Unconditionally Secure Communications for Complex UAS				
WF-031321		SS Networked Control and Its Applications			M3 13:15-15:15
	NIDR: A QoS routing based on link interference degree in WSN	SS Networked Control and Its Applications	Oral Interactive	October 22	M3 13:15-15:15
	Survey of Wearable EEG and ECG Acquisition Technologies for Body Area				
WF-009539	Network	SS Networked Control and Its Applications	Oral Interactive	October 22	M3 13:15-15:15
	Distributed Self-triggered Constraint Control for Multi-Agent Systems: Semi-				
WF-011371	global Consensus Case	SS Networked Control and Its Applications	Oral Interactive	October 22	M3 13:15-15:15
WF-029394	Implementation of Deep Neural Networks for Industry Applications	TT Computational Intelligence and Signal and Image Processing	Oral Interactive	October 22	M3 13:15-15:15
	An Encoder Generative Adversarial Network for Multi-modality Image				
WF-001538	Recognition	TT Computational Intelligence and Signal and Image Processing	Oral Interactive	October 22	M3 13:15-15:15
	Determining Number of Speakers from Single Microphone Speech Signals by				
1	Multi-Label Convolutional Neural Network	TT Computational Intelligence and Signal and Image Processing	Oral Interactive	October 22	M3 13:15-15:15
WF-008915	Action Recognition Based on Multi-feature Depth Motion Maps	TT Computational Intelligence and Signal and Image Processing	Oral Interactive	October 22	M3 13:15-15:15

	Associations of Second Life of Power Supply Units as Charge Controllers in PV				
WF-028533	Systems	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	The Development and Application of a DC Microgrid Testbed for Distributed				
WF-014702	Microgrid Energy Management System	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Consensus Based Distributed Cooperative Load-Frequency Control for Multi-				
WF-029386	area Power Grid Networks	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Grid fault detection and control of microgrid inverter according to the				
WF-006815	structure of three phase output transformer	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Multiperiod Wind Speed Forecasting Approach based on ELM and Association				
WF-009571	Rules	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
WF-012106	Adequacy Assessment of Protective Enclosures for IEC Digital Energy Meters	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Hierarchical Energy Management Strategy for a Community of Multi Smart				
WF-012416	Homes	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
WF-013099	Based on Virtual Generator Energy Router AC-DC Coordination Control	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Laboroatory investigations of parallel connected inverters feeding medium				
WF-021113	voltage transformer	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Harmonics Estimation of a Noisy Power System Signal using Cubature Kalman				
WF-027839	Filter	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Frequency support and stability analysis for an integrated power system with				
WF-029246	wind farms	TT Power Systems and Smart Grids	Oral Interactive	October 22	M3 13:15-15:15
	Two and Three Level FCMLI based SHAF with PI and Fuzzy Logic Controllers				
	using Id-Iq control strategy for Power Quality Enhancement	SS Advanced Power Quality Conditioning Systems			M4 15:45-18:00
WF-010936	Dual-Buck Arbitrary Voltage Divider with one Output having Reduced Ripples	SS Advanced Power Quality Conditioning Systems	Oral Interactive	October 22	M4 15:45-18:00
	A Hybrid Series Active Filter using Single-phase Low Rating Packed U-Cell				
WF-031186		SS Advanced Power Quality Conditioning Systems	Oral Interactive	October 22	M4 15:45-18:00
	Research on Single-phase SVG Based on 2nd Harmonic Feedforward and				
WF-031968	Decoupling Control	SS Advanced Power Quality Conditioning Systems	Oral Interactive	October 22	M4 15:45-18:00
	An Optimal Design and Analysis of A Hybrid Power Charging Station for	SS Electric Vehicle Charging Systems: Architectures, Communication,			
WF-004952	Electric Vehicles Considering Uncertainties	and Management	Oral Interactive	October 22	M4 15:45-18:00
	Comparison of Capacitor- and Ferrite-less 85kHz Self-resonant Coils	SS Electric Vehicle Charging Systems: Architectures, Communication,			
	Considering Dielectric Loss for In-motion Wireless Power Transfer	and Management	Oral Interactive	October 22	M4 15:45-18:00
	State-of-Charge Co-estimation of Li-ion Battery based on on-line Adaptive				
	Extended Kalman Filter Carrier Tracking Algorithm	TT Renewable Energy and Energy Storage Systems	Oral Interactive		
	LQR based PID Voltage Controller for Photovoltaic Systems	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Energy management and sizing algorithm applied on a hybrid power system				
	suppliying an isolated residential application	TT Renewable Energy and Energy Storage Systems			M4 15:45-18:00
WF-018414	Estimating Battery Pack SOC Using A Cell-to-Pack Gain Updating Algorithm	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Nonlinear Model Predictive Control of Photovoltaic-Battery System for Short-				
WF-001422	Term Dispatch	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00

	A Dual-Buck Inverter with H5 Configuration for Photovoltaic Grid-tied				
WF-005002	Applications	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	A Grid Connected Photovoltaic Microinverter with Integrated Battery	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-006602	Enhanced Hierarchical Control of Hybrid Energy Storage System in Microgrids	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-009326	Optimal Control of an Interconnected Hydraulic Wind Farm	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Comprehensive Modelling of A Slotess Halbach Linear Generator Based Wave				
WF-010596	Energy Converter	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Energy Production Assessment of 3x50MW AC Photovoltaic Project based on				
WF-011347	Solar Resource with Uncertainty Analysis	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-014966	Study of the Boost type DC-DC Converter for Single Solar Cell	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Analysis of Brushless Wound Rotor Synchronous Generator with Unity Power				
WF-015121	Factor Rectifier for Series Offshore DC Wind Power Collection	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-015296	Fault Ride Through Testing Method Based on DVR for Offshore Wind Turbines	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Coordinated Voltage Control Scheme of an Adjustable-Speed Pumped Storage				
WF-015466	Hydropower and a Wind Power Plant	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	A Review and Modeling of Different Droop Control Based Methods for Battery				
WF-021431	State of the Charge Balancing in DC Microgrids	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-021466	An Anti-islanding Protection for Inverters in Distributed Generation	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
WF-021814	A New Nonlinear Double-Capacitor Model for Rechargeable Batteries	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Frequency Control of Hydraulic Wind Farm under Low and High Wind				
WF-022071	Conditions	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	An Extremely Low-Cost Wind Emulator	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Power Quality Improvement in Single Phase Solar PV-APF Grid Tied System				
WF-023434	Using Robust Least-Mixed-Norm (RLMN) Algorithm	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
1	A Novel Vector Control Scheme for PMSM Driven Encoder-Less Solar Water				
	Pumping System	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	Ampacity and Electro-Magnetic Modeling for High-Voltage Subsea Cables				
	Installed in Saturated Seabed	TT Renewable Energy and Energy Storage Systems	Oral Interactive	October 22	M4 15:45-18:00
	State Trajectory Generation of MIMO Multirate Feedforward for Perfect				
	Tracking Control in High-Precision Stage	SS Advanced Motion Control for Mechatronic Systems	Oral Interactive	October 23	T2 09:30-11:45
	Unknown Frequency Vibration Suppression Control of Linear Motor Stage	SS Advanced Motion Control for Mechatronic Systems	Oral Interactive	October 23	T2 09:30-11:45
	Design of iterative learning control for force control considering				
	environmental impedance	SS Advanced Motion Control for Mechatronic Systems	Oral Interactive	October 23	T2 09:30-11:45
	High Precision Modeling for a Multi-Axis Robot Considering Interference				
	Force based on Robot Dynamic Model	SS Advanced Motion Control for Mechatronic Systems	Oral Interactive	October 23	T2 09:30-11:45
	A Human-Robot Interface System for WalkON Suit: a Powered Exoskeleton for				
	Complete Paraplegics	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral Interactive		
WF-033294	Acceleration Based Force Estimation in Series Elastic Actuator	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral Interactive	October 23	T2 09:30-11:45

	Haptic Rendering for Time-Variant System Based on FDTD Method				
WF-034304	Concidering Realtime Discretization	SS Advanced Motion Control for Physical Human-Robot-Interaction	Oral Interactive	October 23	T2 09:30-11:45
	-	SS Biomedical Applications of Industrial Electronics	Oral Interactive	October 23	T2 09:30-11:45
WF-003719	An electrode for the treatment of large surfaces in ECT	SS Biomedical Applications of Industrial Electronics	Oral Interactive	October 23	T2 09:30-11:45
WF-019909	An Ultrasonic Indoor Positioning System for Harsh Environments	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral Interactive	October 23	T2 09:30-11:45
	Feasibility analysis of bluetooth 5 for real-time data transmission in HVAC and				
WF-032689	HVDC substations	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral Interactive	October 23	T2 09:30-11:45
WF-034754	Low Cost Sensor to Measure Solid Concentrations in Wastewater	SS Emerging Wireless Technologies for Industrial Internet of Things	Oral Interactive	October 23	T2 09:30-11:45
	Improving the Dynamic Response of Scalar Control of Induction Machine				
	Drive using Phase Angle Control	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	The Design, Control and Dynamic Performance of an Interior Permanent				
WF-000825	Magnet Synchronous Generator for a Wind Power System	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Performance of Adaptive MTPA Torque Per Amp Control at Multiple				
WF-012963	Operating Points for Induction Motor Drives	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Design Optimization of Axial Flux Permanent Magnet Brushless DC				
WF-001414	Micromotor Using Response Surface Methodology and Bat Algorithm	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Performance Comparison of Direct Torque Controlled Permanent Magnet				
WF-019771	Machines	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Modeling and Comparison of Space Vector PWM schemes for a Five-Phase				
WF-012076	Induction Motor Drive	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Angular Position Tracking Controller for PMSM based on Compensated Non-				
WF-023566	Linearities and Type-II Internal Model Control	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
WF-028312	Modelling of Stray-Load Loss for Medium Power Induction Motors	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Convex optimization-based sensorless control for IPMSM drives with reduced				
WF-002798	complexity	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Research on Adaptive Sliding Mode Sensorless Observer Based on A Novel				
WF-008206	Deadbeat Predictive Torque Control Strategy for PMSM	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Study on a novel deadbeat predictive torque control strategy with flux and				
WF-008389	torque decoupling for PMSM	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Improved Sensorless Drive for Synchronous Motors Based on High-Frequency				
	Sinusoidal Signal Injection With Simplified Extraction of Position-Error				
	Information	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	CFD and LPTN Hybrid Technique to Determine Convection Coefficient in End-				
WF-023949	winding of TEFC Induction Motor with Copper Rotor	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Applicability of Superposition Equivalent Loading Method for Induction				
WF-026395	Machine Temperature Tests	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
WF-027111	Fast Characterization of AC Windings	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	Insights Into Digital Twin Based on Finite Element Simulation of A Large Hydro				
WF-028924	Generator	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45

	Transient Voltage Distribution in Induction Motor Stator Windings Using Finite				
WF-034592	Elements Method	TT Electrical Machines and Industrial Drives	Oral Interactive	October 23	T2 09:30-11:45
	A Performance Comparison of Stationary Frame Control of Three-Leg and				
	Four-Leg Voltage Source Inverters in Power System Applications	TT Power Electronics Converters	Oral Interactive	October 23	T2 09:30-11:45
	Dissipative lithium-ion cell balancing by recharge control and detection of	SS Energy Storage Management Systems for Transportation			
	outliers for energy optimization and heat reduction	Electrification	Oral Interactive	October 23	T3 13:15-15:15
	Energy Management System in Micro-grid with Storage and Hydrogen	SS Energy Storage Management Systems for Transportation			
WF-017035	Production	Electrification	Oral Interactive	October 23	T3 13:15-15:15
	Boost-Cascaded-by-Buck Power Factor Correction Converter for Universal On-	SS Energy Storage Management Systems for Transportation			
WF-031615	board Battery Charger in Electric Transportation	Electrification	Oral Interactive	October 23	T3 13:15-15:15
		SS Energy Storage Systems for Smart Grids: Advanced Topologies and			
WF-036323	Intelligent Energy Storage Management System for Smart Grid integration	Control Algorithms	Oral Interactive	October 23	T3 13:15-15:15
	SoC Balancing of Different Energy Storage Systems in DC Microgrids Using	SS Energy Storage Systems for Smart Grids: Advanced Topologies and			
WF-010588	Modified Droop Control	Control Algorithms	Oral Interactive	October 23	T3 13:15-15:15
WF-033677	Sensitivity analysis for the parameter identification of a PEM fuel cell	SS Novel Energy Storage Solutions for E-Transportation and Smart Grid	Oral Interactive	October 23	T3 13:15-15:15
	Modeling, Control and Prototyping of a Highly Integrated Battery-				
WF-035092	Ultracapacitor System for Microgrids	SS Novel Energy Storage Solutions for E-Transportation and Smart Grid	Oral Interactive	October 23	T3 13:15-15:15
WF-035858	Power Market Price Forecasting via Deep Learning	SS Big Data and Cyber Security in Smart Grids	Oral Interactive	October 23	T3 13:15-15:15
WF-021326	Cyberattack to Cyber-Physical Model of Wind Farm SCADA	SS Big Data and Cyber Security in Smart Grids	Oral Interactive	October 23	T3 13:15-15:15
	Nonverbal Human–Robot Communication for Ambient Assisted Living				
WF-019046	Applications Based on Ethologically Inspired Social Behavior Model	SS Close Proximity Human Robot Interaction	Oral Interactive	October 23	T3 13:15-15:15
	Unsupervised Feature Extraction from RGB-D Data for Object Classification: a				
WF-011142	Case Study on the YCB Object and Model Set	SS Collaborative Robots in Smart Manufacturing	Oral Interactive	October 23	T3 13:15-15:15
	Traffic Flow Stablization Strategy for Mitigating Automated and Human Driven	SS Connected and Automated Vehicle Integration, Safety, and			
WF-036897	Vehicles Interactions	Environment Design	Oral Interactive	October 23	T3 13:15-15:15
	Implementation of Superconducting Cables in Medium Voltage DC Integrated				
	Power Systems on All Electric Ships	SS DC Shipboard Power Systems for the Future All Electric Ships	Oral Interactive	October 23	T3 13:15-15:15
	Developing Diagnostics and Prognostics of Data Center Systems Implementing				
	with Condition-Based Maintenance	SS Efficiency of Modern Data Centers	Oral Interactive	October 23	T3 13:15-15:15
	A New DC-DC Multilevel Breed of XY Converter Family for Renewable Energy	SS Emerging Converter Topologies and Control for High-Performance PV			
	Applications: LY Multilevel Structured Boost Converter	Systems	Oral Interactive	October 23	T3 13:15-15:15
	Feasibility Study on Thermal Energy Harvesting for Low Powered Electronics				
	in High-Voltage Substations	SS Energy Harvesting for The Industrial IoT	Oral Interactive	October 23	T3 13:15-15:15
	Analysis of Linear Interface Algorithms for Power Hardware-in-the-Loop	SS Geographically Distributed Real-Time Simulation and Lab-Based			
WF-013064		Testing of Power Systems	Oral Interactive	October 23	T3 13:15-15:15
	Asynchronous Integration of a Real-Time Simulator to a Geographically	SS Geographically Distributed Real-Time Simulation and Lab-Based			
	Distributed Controller through a Co-Simulation Environment	Testing of Power Systems	Oral Interactive	October 23	T3 13:15-15:15
	A Hardware-In-the-Loop Platform for Testing Networked Controllers for	SS Geographically Distributed Real-Time Simulation and Lab-Based			
WF-020664	Microgrids	Testing of Power Systems	Oral Interactive	October 23	T3 13:15-15:15

	Wave Transformation Based Interface Algorithm for Distributed Simulation of	SS Geographically Distributed Real-Time Simulation and Lab-Based			
WF-037095	HVDC systems	Testing of Power Systems	Oral Interactive	October 23	T3 13:15-15:15
	A Lyapunov Stability Theorem Based Control Strategy for Single-Phase Neutral	-			
	Point-Clamped Quasi-Impedance Source Inverter with LCL Filter	SS Impedance Source Converter Topologies and Applications	Oral Interactive	October 23	T3 13:15-15:15
	Novel Control Algorithm for V/f Control of PWAM Based Induction Motor				
WF-020176	Drive	SS Impedance Source Converter Topologies and Applications	Oral Interactive	October 23	T3 13:15-15:15
	FPGA-based Hardware in the Loop Test-Bench for Robust Software				
WF-025496	Development of Induction Heating Appliances	SS Induction Heating Systems	Oral Interactive	October 23	T3 13:15-15:15
	A Combination Method of Fingerprint Positioning and Propagation Model				
WF-003832	Based Localization in 3D Large-Scale Indoor Space	SS Innovative Approaches to Industrial Wireless Systems	Oral Interactive	October 23	T3 13:15-15:15
	Temperature prediction intelligent system based on BP neural network in				
WF-006351	wireless industrial IoT	SS Innovative Approaches to Industrial Wireless Systems	Oral Interactive	October 23	T3 13:15-15:15
	A Navigation Method for Mobile Robots with 3D LiDAR and Monocular				
WF-030414	Camera	SS Machine Vision, Control and Navigation	Oral Interactive	October 23	T3 13:15-15:15
WF-036463	Predictive Sliding Mode Tracking Control for a Class of SISO Systems	SS Motion Control in Highly Dynamic Mechatronic Systems	Oral Interactive	October 23	T3 13:15-15:15
	Direct Duty Ratio Control of Buck DC-DC Converters Using Disturbance	SS Nonlinear Uncertain System Control With Application to Industrial			
WF-000647	Observer Based Integral Sliding Mode Control	Electronics	Oral Interactive	October 23	T3 13:15-15:15
	Control of Electric Excitation Synchronous Motor Based on Hybrid Air Gap Flux	SS Nonlinear Uncertain System Control With Application to Industrial			
WF-001171	Observation Model	Electronics	Oral Interactive	October 23	T3 13:15-15:15
		SS Nonlinear Uncertain System Control With Application to Industrial			
WF-014591	Robust Output Feedback Control for a 3-DOF Helicopter System	Electronics	Oral Interactive	October 23	T3 13:15-15:15
	Sliding Mode Control of Manipulator Based on Nominal Model and Nonlinear	SS Nonlinear Uncertain System Control With Application to Industrial			
WF-026204	Disturbance Observer	Electronics	Oral Interactive	October 23	T3 13:15-15:15
	Fault-Tolerant Predictive Control of a Doubly-Fed Induction Generator With	SS Recent Advances in Multilevel Inverters for Renewable Energy			
WF-009873	Minimal Hardware Requirements	Integration	Oral Interactive	October 23	T4 15:45-18:00
		SS Recent Advances in Multilevel Inverters for Renewable Energy			
WF-013617	Phase Power Balancing of An Interphase Grid-connected CHB-QAB PV Systems	Integration	Oral Interactive	October 23	T4 15:45-18:00
	Proportional-Integral and Proportional-Resonant Based Control Strategy for	SS Recent Advances in Multilevel Inverters for Renewable Energy			
WF-032948	PUC Inverters	Integration	Oral Interactive	October 23	T4 15:45-18:00
	On the occurrence of nonlinear dynamic phenomena in the hysteresis-	SS Recent Advances on Design and Control of Synchronous Reluctance			
WF-016349	controlled switched reluctance motor drive	and Switched Reluctance Machines	Oral Interactive	October 23	T4 15:45-18:00
	Control System for Open-End Winding Sync-Rel Motors with a Floating	SS Recent Advances on Design and Control of Synchronous Reluctance			
WF-035904	Capacitor Bridge	and Switched Reluctance Machines	Oral Interactive	October 23	T4 15:45-18:00
	First Insights on the Electromagnetic Design of Axial-Flux Synchronous-	SS Recent Advances on Design and Control of Synchronous Reluctance			
WF-015482	Reluctance Maschine	and Switched Reluctance Machines	Oral Interactive	October 23	T4 15:45-18:00
		SS Recent Advances on Design and Control of Synchronous Reluctance			
WF-027618	Optimal Design of SRMs for Comparable Output with PMSMs	and Switched Reluctance Machines	Oral Interactive	October 23	T4 15:45-18:00
	Event-triggered sliding-mode output consensus of the heterogeneous MAS				
WF-036447	with external disturbances	SS Recent Progress in Human Factors	Oral Interactive	October 23	T4 15:45-18:00

WF-033529	Probe Design for High-Precision Eddy-Current Displacement Sensors	SS Smart Sensors for Industrial Applications Forum	Oral Interactive	October 23	T4 15:45-18:00
		SS Smart Technologies and Case Study for Industrial Applications and			
WF-019968	Vibration Condition Monitoring using Machine Learning	Safety	Oral Interactive	October 23	T4 15:45-18:00
	An Overview of Technologies for Lower Energy Consumption in Smart	SS Smart Technologies and Case Study for Industrial Applications and			
WF-026174	Buildings	Safety	Oral Interactive	October 23	T4 15:45-18:00
		SS Smart Transformer: Design, Control and Impact on Future			
WF-027103	Robustness Analysis of Voltage Control Strategies of Smart Transformer	Distribution Grids	Oral Interactive	October 23	T4 15:45-18:00
	Event-triggered Secure Estimation for Large-scale Interconnected Systems				
WF-001511	Based on Intermediate Estimator	SS Stability Analysis and Security Control of Hybrid Networked Systems	Oral Interactive	October 23	T4 15:45-18:00
WF-025577	Observer-Based Sliding Mode Control of a 2-DOF Helicopter System	TT Mechatronics and Robotics	Oral Interactive	October 23	T4 15:45-18:00
	Fuzzy-Based Sliding Mode Control and Sliding Mode Control of a Spherical				
WF-014664	Robot	TT Mechatronics and Robotics	Oral Interactive	October 23	T4 15:45-18:00
WF-020109	Survey on Energy based Control for Brachiation Robots	TT Mechatronics and Robotics	Oral Interactive	October 23	T4 15:45-18:00
WF-026409	Wavelet-Based Visual Tracking System for Miniature Aerial Vehicle	TT Mechatronics and Robotics	Oral Interactive	October 23	T4 15:45-18:00
	A Calibration Method for Laser Guided Robotic Manipulation for Industrial				
WF-027367	Automation	TT Mechatronics and Robotics	Oral Interactive	October 23	T4 15:45-18:00
	Implementation of Emperical Decomposition Control in Shunt Active Filter				
WF-019445	Based On Cascaded Multilevel Inverter with Single Excited DC Source	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
WF-023302	UDE-based Robust Control for AC/DC Converters	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
	Current Sensor-less Control for Boost DC-DC Converter Based on Switched				
WF-012181	Observer	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
WF-013528	Development of 3.3 kV-100 kW Extremely High Efficiency SiC Chopper	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
WF-024783	Current-fed Full-Bridge Boost DC-DC Converter with Adaptive Resonant	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
	Design considerations of the Class E dc-dc converter in wide input voltage				
	range with ON-OFF control	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
WF-009091	Two-Switch Reset Winding Forward Converter with Low Input Current Ripple	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
	Modular EV Fast Charging Station Architectures based on Multiphase-Medium				
WF-020982	Frequency Transformer	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
	Nonlinear Modeling and Control of PWM DC-DC Buck-Boost Converter for				
WF-029408	CCM	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
	Voltage Feedback of an LLC Resonant Converter with a Rotary Transformer	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00
I I	Design Considerations of a Flying Capacitor Multilevel Flyback Converter for				
	DC-DC and Pulsed Power Applications	TT Power Electronics Converters	Oral Interactive		
WF-026565	A fault ride-through strategy based on MMC inner capacitor energy storage	TT Power Electronics Converters	Oral Interactive	October 23	T4 15:45-18:00