| 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 |
| WE-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 | | | |
| WF-032301 | Applicability of Context-Aware Health Monitoring to Hydraulic Circuits | Safety | Oral | October 22 | S4 15:45-18:01 |
| | 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- | | | | |
| WF-028746 | 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 | | | | |
| WF-009008 | 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 | | | | |
| | machine drive | TT Electrical Machines and Industrial Drives | Oral | | 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 | | 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 | | | | |
| 1 | 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 | | 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 |
| | Hard-to-predict routing algorithm from intruders for autonomous surveillance | | | | |
| 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 |

| | A 2MHz Constant-Frequency AOT V2 Buck Converter with Adaptive Dead Time | | | | |
|-----------|----------------------------------------------------------------------------------|------------------------------------------------|------|------------|----------------|
| 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 |
| WF-017876 | Synchronous Rectifier for High-Power Wireless Transfer Applications | TT Power Systems and Smart Grids | Oral | October 22 | M2 09:30-11:45 |
| | 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 |
| | Capacity Limit Allocation for Active Congestion Management of Distribution | | | | |
| 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 |
| | Upper-Middleware Development of Smart Energy Profile 2.0 for Demand-Side | | | | |
| WF-034266 | Communications in Smart Grid | TT Power Systems and Smart Grids | Oral | October 22 | M2 09:30-11:45 |
| | Development of Hybrid Blade Angle Control System for Traversing Wind | | | | |
| 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 |
| | Fault-tolerant Control for Distributed-drive Electric Vehicles Considering | | | | |
| 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 |
| | Fault Analysis of Grid Connected Multi-PM BLDC Motor Drive | TT Transportation Electrification and Automotive Technologies | Oral | October 22 | M2 09:30-11:45 |
| | Thermal Uncertainty Simulation on LED Lighting Boards of Heavy Duty | | | | |
| | Transportation Vehicles | TT Transportation Electrification and Automotive Technologies | Oral | October 22 | M2 09:30-11:45 |
| | 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 |
| | Thermo-mechanical behavior in precision motion control: Unified framework | | | | |
| WF-007749 | for fast and accurate FRF identification | SS Advanced Motion Control for Mechatronic Systems | Oral | October 22 | M3 13:15-15:15 |
| | Fiber Suspended Micro Force Transmission System using Scaling Bilateral | | | | |
| WF-008729 | Control | SS Advanced Motion Control for Mechatronic Systems | Oral | October 22 | M3 13:15-15:15 |
| | Robustness Analysis of Two-Mass System Control Using Acceleration-Aided | | | | |
| WF-008982 | Kalman Filter | SS Advanced Motion Control for Mechatronic Systems | Oral | October 22 | M3 13:15-15:15 |
| | Damping Control of Suspended Load for Truck Cranes in Consideration of | | | | |
| WF-009164 | Second Bending Mode Oscillation | SS Advanced Motion Control for Mechatronic Systems | Oral | October 22 | M3 13:15-15:15 |
| | Seek Control of Hard Disk Drives Using Model Following Control: An Improved | | | | |
| WF-013269 | Result | SS Advanced Motion Control for Mechatronic Systems | Oral | October 22 | M3 13:15-15:15 |
| | Optimal State Trajectory Regeneration for Nonminimum Phase Systems: No | | | | |
| 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 |
| | Maximum Efficiency Operation in Wider Output Power Range of Wireless In- | SS Electric Vehicle Charging Systems: Architectures, Communication, | Orai | October 22 | 10.13 13.13 |
| | Wheel Motor with Wheel-side Supercapacitor | and Management | Oral | October 22 | M3 13:15-15:15 |
| W1 010000 | White Histor with White Side Supercupation | SS Electric Vehicle Charging Systems: Architectures, Communication, | Orai | October 22 | 10.13 13.13 |
| WF-017264 | New Perspectives for Vehicle-to-Vehicle (V2V) Power Transfer | and Management | Oral | October 22 | M3 13:15-15:15 |
| W1 017204 | Hew reispectives for verifice to verifice (v2v) rower transfer | SS Electric Vehicle Charging Systems: Architectures, Communication, | Orai | October 22 | 10.13 13.13 |
| WF-024678 | A Real-time Drivers' Status Monitoring Scheme with Safety Analysis | and Management | Oral | October 22 | M3 13:15-15:15 |
| | 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 |
| WF-031879 | | and Management | Oral | October 22 | M3 13:15-15:15 |
| | 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 |
| | On-chip Spectral Analysis with Low Power and Optimal Control for Energy | STATE OF THE CONTROL OF THE CONTRO | 10.0. | 000000. 22 | 20:13 20:13 |
| | Harvesting Using Piezoelectric Devices | SS Low Power Smart Sensors in Industrial Applications | Oral | October 22 | M3 13:15-15:15 |
| | Energy Harvesting from Wastewater with a Single-Chamber Air-Cathode | STATE OF THE CONTROL OF THE CONTRO | 10.0. | 000000. 22 | 20:20 20:20 |
| | Microbial Fuel Cell | SS Low Power Smart Sensors in Industrial Applications | Oral | October 22 | M3 13:15-15:15 |
| | Industrial Monitoring and Troubleshooting based on LoRa Communication | STATE OF THE CONTROL OF THE CONTRO | 10.0. | 000000. 22 | 20:20 20:20 |
| WF-010855 | <u> </u> | SS Low Power Smart Sensors in Industrial Applications | Oral | October 22 | M3 13:15-15:15 |
| | Performance Analysis of D2D Energy Efficient IoT Networks with Relay- | STATE STAT | 10.0. | 000000 | 20:20 20:20 |
| | Assisted Underlaying Technique | SS Low Power Smart Sensors in Industrial Applications | Oral | October 22 | M3 13:15-15:15 |
| | The Need for Standardisation in Low Power Smart Sensing | SS Low Power Smart Sensors in Industrial Applications | Oral | | M3 13:15-15:15 |
| | A Simulation and Experimental Study of Input Decoupled Partially Adiabatic | So to the control of | 10.0. | 000000 | 20:13 20:13 |
| 1 | Logic (IDPAL) | SS Low Power Smart Sensors in Industrial Applications | Oral | October 22 | M3 13:15-15:15 |
| | Lightweight and Low-Energy Encryption Scheme for Voice over Wireless | The state of the s | | | |
| WF-000353 | | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | OFDM Modulation Simulation and Analysis Applied in New Generation of | | | | |
| | Optical Networks | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | A Testbed for Evaluating QoS of Different Classes of Industrial Ethernet | | | | |
| | Protocols Based on Raspberry Pi | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | A Model-Based Approach to Calculate Maintainability Task Lists of PLC | | | | |
| | Programs for Factory Automation | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | Dynamic Optimization of a Remote Control Cycle for Better Responsiveness | TT Communications for Industrial and Factory Automation | Oral | | M3 13:15-15:15 |
| | An application of Cloud Robotics for enhancing the Flexibility of Robotic Cells | · | | | |
| | at Factory Shop Floors | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | Consistent Automated Production Systems Modelling in a Multi-disciplinary | , | | | |
| 1 | Engineering Workflow | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | Data-driven and Event-driven Integration Architecture for Plant-wide | , | | | |
| 1 | Industrial Process Monitoring and Control | TT Communications for Industrial and Factory Automation | Oral | October 22 | M3 13:15-15:15 |
| | Diurnal Thermal Dormant Landmine Detection using Unmanned Aerial | , | | | |
| WF-025127 | _ | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |

| | Sensor Fusion to Detect Scale and Direction of Gravity in Monocular Slam | | | | |
|-----------|-------------------------------------------------------------------------------|----------------------------------------------|------|------------|----------------|
| WF-011851 | Systems | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| | Parameter sensitivity analysis of SPC-based control under different grid | | | | |
| WF-013986 | conditions | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| | ANFIS Based DC-Link Voltage Control of PWM Rectifier-Inverter System with | | | | |
| WF-018597 | Enhanced Dynamic Performance | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| | Discrete-time Path Tracking Control of Multiple UUVs Based on Virtual Leader | | | | |
| WF-013005 | under Time Varying Delay | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| WF-017426 | Vision-navigated Bilateral Control for Master-slave Teleoperation System | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| | Passivity-based Visual Feedback Control for an Endpoint Closed-loop System | | | | |
| WF-017396 | with a Movable Camera | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| WF-016292 | Trajectory Control of Wheeled Mobile Robot on Shaking Environments | TT Control Systems and Applications | Oral | October 22 | M3 13:15-15:15 |
| | Sensorless Commutation Error Compensation of High Speed Brushless DC | | | | |
| WF-019135 | Motor based on RBF Neural Network Method | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| | Motor Current Regulation Based Direct DC-link Current Control of Wide Range | | | | |
| 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 |
| | A Variable Parameter Three-Phase Model for Linear Induction Machine | | | | |
| WF-021865 | Operating in Regenerative Brake Mode | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| | MPDCC Based High Efficiency Harmonic Reduction Control for IPMSM Driven | | | | |
| WF-028215 | by Electrolytic Capacitorless Inverter | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| | An Analytical Design Strategy and Implementation of a dv/dt Filter for WBG | | | | |
| | Devices based High Speed Machine Drives | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| WF-005355 | A Dynamic Braking Control Strategy for DC-Excited Flux Switching Machine | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| | Tolerant Design and Electromagnetic Response of Permanent Magnet | | | | |
| | Machine with Stator Turn Fault | TT Electrical Machines and Industrial Drives | Oral | October 22 | M3 13:15-15:15 |
| | Optimization of Switched Reluctance Motor Drive Firing Angles using Grey | | | | |
| WF-026352 | Wolf Optimizer for Torque Ripples Minimization | TT Electrical Machines and Industrial Drives | Oral | | M3 13:15-15:15 |
| WF-016098 | Leader-Follower Localization and Mapping using Range-Only Measurements | TT Mechatronics and Robotics | Oral | October 22 | M3 13:15-15:15 |
| | Feedforward control of isolating photovoltaic DC-DC converter to reduce grid- | | | | |
| | side DC link voltage fluctuation | TT Power Electronics Converters | Oral | October 22 | M3 13:15-15:15 |
| | Sequential Model Predictive Control of Direct Matrix Converter without | | | | |
| | Weighting Factors | TT Power Electronics Converters | Oral | October 22 | M3 13:15-15:15 |
| 1 | A generalized formulation of active power synchronization based control | | | | |
| | 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 |
| | Tracking of aging processes in power electronic converters using the rainflow | | | | |
| WF-033421 | | SS Aspects of Digital Twins for Power Electronics and Energy Systems | Oral | October 23 | T2 09:30-11:45 |
| | The Low DC-link Capacitance Design Consideration for Cascaded H-Bridge | SS Power Electronics Based New Techniques for Improving Medium | | | |
| 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 | | | |
| | Identification of Mathematical Model of Arc Suppression Coil | Voltage Electric Grid Performance | Oral | October 23 | T2 09:30-11:45 |
| 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 |
| | Robot Shape Design to Easily Recognize Robots' Movement for Human | SS Recent Progress in Human Factors | Oral | October 23 | T2 09:30-11:45 |
| | Improvement of the Handling and Spreading Machine for Automated Bed | | | | |
| WF-032166 | Sheet Ironing Machine | SS Recent Progress in Human Factors | Oral | October 23 | T2 09:30-11:45 |
| | Study on Control Method for Improving Straightness of Front-wheel-drive | | | | |
| WF-034193 | Wheelchair | SS Recent Progress in Human Factors | Oral | October 23 | T2 09:30-11:45 |
| | Experimental Verification on Thermal Modeling of Medium Frequency | SS Smart Transformer: Design, Control and Impact on Future | | | |
| WF-008524 | Transformers | Distribution Grids | Oral | October 23 | T2 09:30-11:45 |
| | Smart Transformer for the Provision of Coordinated Voltage and Frequency | SS Smart Transformer: Design, Control and Impact on Future | | | |
| WF-013102 | Support in the Grid | Distribution Grids | Oral | October 23 | T2 09:30-11:45 |
| | High Power Quality Voltage Control of Smart Transformer-fed Distribution | SS Smart Transformer: Design, Control and Impact on Future | | | |
| WF-017175 | Grid | Distribution Grids | Oral | October 23 | T2 09:30-11:45 |
| | Protection Design Considerations of a 10 kV SiC MOSFET Enabled Mobile | SS Smart Transformer: Design, Control and Impact on Future | | | |
| WF-031771 | Utilities Support Equipment based Solid State Transformer (MUSE-SST) | Distribution Grids | Oral | October 23 | T2 09:30-11:45 |
| | | SS Smart Transformer: Design, Control and Impact on Future | | | |
| WF-034878 | Flexible Power Transfer in Smart Transformer Interconnected Microgrids | Distribution Grids | Oral | October 23 | T2 09:30-11:45 |
| | 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 |
| | | SS Smart Transformer: Design, Control and Impact on Future | | | |
| 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 |
| | A Modified LCC-Compensated Pickup Topology for Dynamic Wireless Power | | | | |
| WF-006777 | Transfer Systems | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | Construction and Analysis of Communication Channels for Simultaneous | | | | |
| WF-008893 | Wireless Power and Data Transmission | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | Basic Study of Solar Battery Powered Wireless Power Transfer System with | | | | |
| WF-016357 | MPPT mode and DC Bus Stabilization for Lunar Rover | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | An IPT System with Constant Current and Constant Voltage Output Features | | | | |
| WF-017027 | for EV Charging | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | An Evaluation of Wireless Power Transfer System with Plural Repeater Coils | | | | |
| | for Moving Objects | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| 1 | Development of Wireless Power Transfer with Primary-Side Current Mode | | | | |
| WF-034738 | Control Capability Using Virtual-Current Source Resonant Inverter | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | Adaptive Wireless Charging Using Resonant Coupling with Multiple Transmit | | | | |
| WF-035467 | | SS Wireless Power Transfer | Oral | October 23 | T2 09:30-11:45 |
| | Adaptive Control of Two-Mass Drive System with Nonlinear Stiffness and | | | | |
| WF-004162 | Damping | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |

| | Fixed Switching Frequency Direct Model Predictive Control Based on Output | | | | |
|-----------|------------------------------------------------------------------------------|-----------------------------------------------------------------|------|------------|----------------|
| 1 | Current Gradients | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | A New Solving Method for Non-Linear Optimal Control Problem and Its | , '' | | | |
| | Application to Real System | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | On Experimental validation of Whitelist Auto-Generation Method for Secured | , , , , , , , , , , , , , , , , , , , , | | | |
| 1 | Programmable Logic Controllers | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | Dimmable LED current control with compact fuzzy rules network and | , '' | | | |
| WF-002712 | embedded system | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | Programmable Logic Controller: Open Source Hardware and Software for | , 11 | | | |
| 1 | Massive Training | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | Adaptive Fault Tolerant Control of Quadcopter by Using Minimum Projection | рр по при | | | |
| WF-013463 | , , , , , , , , , , , , , , , , , , , , | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | Speed Ripple Cancellation in a Rolling Piston Compressor via a Nonlinear | , 11 | | | |
| WF-010243 | Adaptive Speed Controller | TT Control Systems and Applications | Oral | October 23 | T2 09:30-11:45 |
| | Advanced Digital Control Design for Ionic Polymer-Metal Composite Actuators | 1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | Oral | | T2 09:30-11:45 |
| | SiC MOSFET Switching Waveform Profiling Through Passive Networks | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | Low CM Leakage Current and High Efficiency H6 Inverter with Active Clamping | | | | |
| WF-015423 | for Transformerless PV System | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | Comparions of Differnet Hybrid Inverters for Power Quality Compensation | | | | |
| WF-005932 | with/without Active Power Injection | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | Fault Tolerance and Energy Sharing Analysis of a Single Phase Multilevel | | | | |
| WF-016462 | Inverter Topology | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | Modular Multilevel DC-DC Converter Configuration for Bipolar HVDC Links | TT Power Electronics Converters | Oral | | T2 09:30-11:45 |
| WF-003247 | Nine-Switch Detroit Rectifier | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| WF-018228 | Real-Time Simulation of a High-Power Cycloconverter Drive | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | Active gate driver and management of the current switching speed in GaN | | | | |
| WF-007978 | transistors during turn-On | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| | A Primary-Sided CLC Compensated Wireless Power Transfer System Based on | | | | |
| WF-005746 | the Class D Amplifier | TT Power Electronics Converters | Oral | October 23 | T2 09:30-11:45 |
| WF-003255 | Hybrid Detroit Rectifier | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |
| WF-013838 | Testing Operation and Coordination of DC Solid State Circuit Breakers | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |
| | Early Design of AC/DC Interface Converters and Control System for a MW- | | | | |
| WF-015237 | scale MVDC Shipboard Power System | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |
| WF-015857 | Large-scale Distributed Control Demonstration for MVDC Ship Power Systems | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |
| | An analysis of the small-signal voltage stability in MVDC power systems with | | | | |
| WF-017272 | two cascade controlled DC-DC converters | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |
| | Distributed Power Management Implementation for Zonal MVDC Ship Power | | | | |
| WF-034843 | Systems | SS DC Shipboard Power Systems for the Future All Electric Ships | Oral | October 23 | T3 13:15-15:15 |

| | A quasi-Z-source Converter to Feed a Switched Reluctance Drive with | | | | |
|-----------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|------|------------|----------------|
| WF-001686 | Multilevel Voltages | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| | High Frequency Transformer based Improved Gamma ZSI with Lossless | | | | |
| WF-012262 | Snubber | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| | An Embedded Enhanced-boost Z-source Inverter Topology with Fault-Tolerant | | | | |
| WF-013501 | Capabilities | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| | A Novel PWM Strategy for Current Ripple and Output Harmonic Minimization | | | | |
| WF-014052 | of Current-Fed Trans-Quasi-Z-Source Inverters | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-017019 | Modeling and Control of Single-Phase Quasi-Z-Source Inverters | SS Impedance Source Converter Topologies and Applications | Oral | | T3 13:15-15:15 |
| | Modified Modulation Techniques for Quasi-Z-Source Cascaded H-Bridge | | | | |
| WF-017108 | Inverters | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| | Digital Control Strategy for Interleaved Quasi-Z-Source Inverter with Active | | | | |
| WF-025941 | Power Decoupling | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-036455 | Design of Multiphase Single-Switch Impedance-Source Converters | SS Impedance Source Converter Topologies and Applications | Oral | October 23 | T3 13:15-15:15 |
| | Inductor system evaluation for simultaneous wireless energy transfer and | | | | |
| WF-010545 | induction heating | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| WF-018031 | 3D Finite Element Simulation of Litz Wires with Multilevel Bundle Structure | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| | Combined PDM with Frequency-Temperature Profile Adaptation Control for | | | | |
| WF-026182 | Induction Metal Hardening | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| WF-033936 | Multi-objective optimization of induction surface hardening process | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| | Improved Thin Heating Coil Structure of Copper Foil Feasible for Induction | | | | |
| WF-034215 | Cookers | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| | Electronic System for Graphical Representation on Cooking Surfaces of | | | | |
| WF-034258 | Domestic Induction Hobs | SS Induction Heating Systems | Oral | October 23 | T3 13:15-15:15 |
| | A Flow-Based Heuristic Algorithm for Network Operations Planning in Smart | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| WF-006882 | Grids | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | Fuzzy Logic Controller for Efficient Energy Management of a PV System with | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| WF-008583 | HESS | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | Experiences of laboratory and field demonstrations of distribution network | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| WF-031062 | congestion management | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| WF-032107 | Formal verification of protection functions for power distribution networks | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | Local Balancing of Low-Voltage Networks by Utilizing Distributed Flexibilities | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| | as Part of the InterFlex Field Trial | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | A Distributed Voltage Controller for Medium Voltage Grids with Storage- | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| | containing Loads | Energy Systems | Oral | October 23 | T3 13:15-15:15 |
| | Development and Stability Analysis of LSD-Based Virtual Synchronous | SS Smart Automation, Control and ICT Concepts Applied to Power and | | | |
| WF-036722 | Generator for HVDC Systems | Energy Systems | Oral | October 23 | T3 13:15-15:15 |

| | Differential Geometric Approach to Robust Control of an Oscillatory Base | | | | |
|-----------|-------------------------------------------------------------------------------|--------------------------------------------------------------|------|------------|----------------|
| | Robot Manipulator | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| | Disturbance rejection control of rigid body attitude based on nonsmooth | , , , , , , , , , , , , , , , , , , , , | | | |
| | control Lyapunov function | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-010553 | Motion Planning for a Knife-Edge Moving on the Surface of a Torus | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-012858 | Observer-Based Sliding Mode Control of a 6-DOF Quadrotor UAV | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| | Nonlinear H-infinity control for optimization of the functioning of mining | · | | | |
| 1 | products mills | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-010537 | Delay Dependent Robust Stability of Reset Systems | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| | A New Hybrid Intelligent Approach for Traffic Flow Forecasting based on Fuzzy | | | | |
| WF-022446 | Controllers | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| | Comparison of Joint Friction Estimation Models For Laboratory 2 DOF Double | | | | |
| WF-006998 | Dual Twin Rotor Aero-dynamical System | TT Control Systems and Applications | Oral | October 23 | T3 13:15-15:15 |
| WF-028606 | Industry 4.0, How to Integrate Legacy Devices: A Cloud IoT Approach | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | Software-based Monitoring for Calibration of Measurement Units in Real-time | | | | |
| WF-021148 | Systems | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | Cyber Security Risk Assessment of Solar PV Units with Reactive Power | | | | |
| WF-000183 | Capability | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | IoT for Healthcare: An architecture and prototype implementation for the | | | | |
| WF-007293 | remote e-health device management using Continua and LwM2M protocols | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | Enhancing the behaviour of System of Cyber-Physical Systems through | | | | |
| WF-026468 | environment parameters | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | An Approach of Cyber-Physical Production Systems Architecture for Robot | | | | |
| WF-036072 | Control | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | An Overview of Trends and Developments of Internet of Things Applied to | | | | |
| WF-031607 | Industrial Systems | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | A Behavior Profiling Model for User Authentication in IoT Networks based on | | | | |
| WF-016713 | App Usage Patterns | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T3 13:15-15:15 |
| | Extraction of Loop Inductances of SiC Half-Bridge Power Module Using An | | | | |
| | Improved Two-port Network Method | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | A Gate Driver Design for Medium Voltage Silicon Carbide Power Devices with | | | | |
| WF-023515 | · | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Pulse Generator with Fast Switching Speed and Short Pulse Width based on | | | | |
| | Semiconductor Switches for Wide Applications | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Non-Isolated Bipolar Gate Driver with Self-Driven Negative Bias Generator in | | | | |
| WF-019542 | High-Side Driving | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Control of Dual Inverter with Power Losses Minimization Using SVPWM and | | | | |
| WF-029165 | Prediction with Extended Horizon | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |

| | Lossless bi-directional current sense circuit for low-voltage high-current DCDC | | | | |
|-----------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|------|------------|----------------|
| WF-026573 | converters | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Investigation into Component Losses and Efficiency of a Bidirectional Full- | | | | |
| WF-029378 | Bridge DC-DC Converter | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Support Vector Regression Assisted Auxiliary Particle Filter based Remaining | | | | |
| WF-009482 | Useful Life Estimation of GaN FET | TT Power Electronics Converters | Oral | October 23 | T3 13:15-15:15 |
| | Multi-port bidirectional high gain converter system for hybrid electric vehicle | SS Energy Storage Management Systems for Transportation | | | |
| WF-014036 | applications | Electrification | Oral | October 23 | T4 15:45-18:00 |
| | Bank Switching Technique in Supercapacitor Energy Storage Systems for Line | SS Energy Storage Management Systems for Transportation | | | |
| WF-031402 | Voltage Regulation in Pulsed Power Applications | Electrification | Oral | October 23 | T4 15:45-18:00 |
| | An Induction Generator Scheme with Series Compensation for Frequency | SS Energy Storage Management Systems for Transportation | | | |
| WF-008648 | Insensitive Loads | Electrification | Oral | October 23 | T4 15:45-18:00 |
| | | SS Energy Storage Management Systems for Transportation | | | |
| WF-021024 | An Integrated EV Battery Charger With Retrofit Capability | Electrification | Oral | October 23 | T4 15:45-18:00 |
| | | SS Energy Storage Systems for Smart Grids: Advanced Topologies and | | | |
| WF-031704 | Multiport Interface Converter with an Energy Storage for Nanogrids | Control Algorithms | Oral | October 23 | T4 15:45-18:00 |
| | Improved Forecasting-Based Battery Energy Management Strategy for | SS Energy Storage Systems for Smart Grids: Advanced Topologies and | | | |
| WF-034614 | Prosumer Systems | Control Algorithms | Oral | October 23 | T4 15:45-18:00 |
| | Bidirectional Soft Switching Current Source DC-DC Converter for Residential | SS Energy Storage Systems for Smart Grids: Advanced Topologies and | | | |
| WF-032786 | DC Microgrids | Control Algorithms | Oral | October 23 | T4 15:45-18:00 |
| | Energy Storage Systems to prevent distribution transformers overload with | SS Energy Storage Systems for Smart Grids: Advanced Topologies and | | | |
| WF-036927 | high NZEB penetration | Control Algorithms | Oral | October 23 | T4 15:45-18:00 |
| | Control Scheme of a Current-Source IPT Charger for Electric Vehicles with a | SS Energy Storage Systems for Smart Grids: Advanced Topologies and | | | |
| | Battery Model as a Load | Control Algorithms | Oral | October 23 | T4 15:45-18:00 |
| | A Method for Detection and Evaluation of Driver Distraction Induced by In- | | | | |
| WF-007056 | Vehicle Information Systems | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| | Estimation of Power Dissipation in Disc Brakes and Tires for Motion Control | | | | |
| WF-007072 | Applications in Electric Vehicles | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| | Linearized Piecewise Affine in the Control and States Hydraulic System: | | | | |
| WF-011401 | Modeling and Identification | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| WF-012238 | Control of a Directly Driven Four-Stroke Free Piston Engine | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| | Comparison of Active Torque Damping Methods for a Power Unit in Relation | | | | |
| WF-012289 | to Implementation Complexity | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| | Proposal of Lateral Force Disturbance Estimation Method for In-Wheel- | | | | |
| | Motored Electric Vehicles | SS Motion Control in Highly Dynamic Mechatronic Systems | Oral | October 23 | T4 15:45-18:00 |
| | An Eddy Current-Capacitive Crack Detection Probe with High Insensitivity to | | | | |
| WF-010839 | | SS Smart Sensors for Industrial Applications Forum | Oral | October 23 | T4 15:45-18:00 |
| WF-010456 | Towards Plug-and-Play Microgrids | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |

| | Modeling and Non-linear Stability Analysis of AC/DC Interconnected Microgrid | | | | |
|-----------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|----------------|
| | using dq-Transformation Considering Generator Dynamics | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |
| | Simultaneous Regulation of Active and Reactive Output Power of Parallel- | See Statement of 2011 months of 51150 months and minor 581145 | | 000000. 20 | |
| | Connected Virtual Oscillator Controlled Inverters | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |
| | Impact of Inverter-Interfaced Renewable Generation on Transient Stability at | Contract of the contract of | | 0 00000. 20 | |
| | Varying Levels of Penetration | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |
| | Stability Assessment of a System Comprising a Single Machine and a Virtual | See Statement of 2011 months of 51150 months and minor 581145 | | 000000. 20 | |
| 1 | Oscillator Controlled Inverter with Scalable Ratings | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |
| | Large-Signal Impedance Modeling of Three-Phase Voltage Source Converters | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | | T4 15:45-18:00 |
| | Modeling, control, and stability of smart loads toward grid of nanogrids for | Contract of the contract of | | 000000. 20 | |
| | smart cities | SS Stability of Low-Inertia Power Systems and Microgrids | Oral | October 23 | T4 15:45-18:00 |
| | Simultaneous Wireless Information and GaN-based Power Transfer Exploiting | See State History Control of See See See See See See See See See Se | | 000000. 20 | |
| 1 | a Dual Frequency Band | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| 1 | Vehicle to Vehicle Charging (V2V) Bases on Wireless Power Transfer | | 10.00 | | |
| WF-018473 | | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| | Development of Multi-axis High-Precision Stage using Multistep Wireless | The string court of the st | 10.0. | 000000. 20 | |
| 1 | Power Transfer | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| | Optimization of the Compensation Networks for WPT Systems | SS Wireless Power Transfer | Oral | | T4 15:45-18:00 |
| | Asymmetrical Multi-Coil Wireless EV Charger with Enhanced Misalignment | | | | |
| WF-029149 | | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| | Selective Wireless Power Transfer via Magnetic Resonant Coupling by Using | | | | |
| 1 | Variable Load Impedance Circuit | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| | Improvement of Efficiency of Multi-Parallel Dynamic Wireless Power Transfer | | | | |
| | System with LCC Topology | SS Wireless Power Transfer | Oral | October 23 | T4 15:45-18:00 |
| | Experimental State Feedback Estimators Based-Pole Placement Control | | | | |
| | applied on Welding Robot Velocity Regulation | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | A Finite-time Sliding Mode Observer for a Class of Perturbed Nonholonomic | , , , , , , | | | |
| WF-019836 | Systems | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | Research on Low Voltage Ride Through of DFIG Under SWITSC Fault Based on | | | | |
| WF-002518 | Crowbar and DC Chopper Circuit Protection | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | On-line Parameter Identification and Self-Commissioning of Current | | | | |
| WF-003433 | Controller for Servo Motor Drives Considering Time Delay in Both Modeling | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | Complete Small-Signal Model of Three-Phase Photovoltaic Inverter | | | | |
| WF-017361 | Considering the Source and Load Effects | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | Nonlinear Voltage Regulation Strategy for a Fuel Cell/Supercapacitor Power | | | | |
| 1 | Source System. | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| | Development of FPGA based Hardware-in-the-loop Simulator for RF Cavity | | | | |
| WF-007455 | Resonator | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |

| | Multi-Layered Formation Control of Autonomous Marine Vehicles With | | | | |
|-----------|-------------------------------------------------------------------------------|--------------------------------------------------------------|------------------|------------|----------------|
| WF-008923 | Nonlinear Dynamics | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| WF-008346 | On the Choice of a Proper Initial Condition for Derivative Controllers | TT Control Systems and Applications | Oral | October 23 | T4 15:45-18:00 |
| WF-000728 | Automatic Labeling For Personalized IoT Wearable Monitoring | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-007307 | Orchestration of Services in Modular Process Plants | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-014214 | Dynamic Resource Management for Virtualization in Industrial Automation | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-007889 | Intelligent Content in System Level Model of Industrial Cyber Physical System | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| | Integration Patterns for Interfacing Software Agents with Industrial | | | | |
| WF-036471 | Automation Systems | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| | On the Applicability of ISO/IEC 25023 Measures for Integrating Agents with | | | | |
| WF-028134 | Automation Systems | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-030449 | Automation System Generic Security Key Manager | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-011916 | Identifying Design Pattern for Agent Based Production System Control | TT Cyber Physical Systems and Internet of Things in Industry | Oral | October 23 | T4 15:45-18:00 |
| WF-026972 | Passivity-Based Trajectory Tracking Control for an Autonomous Bicycle | TT Mechatronics and Robotics | Oral | October 23 | T4 15:45-18:00 |
| | Comparison of Energy Consumption of an Optimized Gait Cycle between | | | | |
| 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 |