International Conference on Power Electronics Systems and Applications

8th - 10th June 2011

Abstract No	Торіс	Presentation type	Session No.
	Measurement Evaluation of Electromagnetic		
1	Radiation from the Electrical Wiring in Evs	Oral	Р
	An Improved MPPT Algorithm Based on		
2	Traditional Incremental Conductance Method	<u>Oral</u>	A
	Detection for Voltage Fluctuation and Flicker		
	Calculation Based On The Instantaneous		
3	Reactive Power Theory	<u>Oral</u>	М
	Harmonic analysis method based on multiple		
	modulation zoom analysis and interpolating		
4	windowed FFT method	Poster Poster	Q
	Study on Charge Controlled Modulation of a		
5	Current Source Grid-connected Inverter	Oral	K
	Research and Development of Photovoltaic		
6	Grid-connected Inverter Based on DSP	Oral	Α
	Research of Photovoltaic Inverter Based on		
7	UC3854	Oral	Α
8	The Design of Photovoltaic Monitoring System	Oral	Α
-	Design of Three-phase Photovoltaic Grid-		
9	connected Inverter Based on DSP	Oral	Α
	Design and Research of Off-grid Wind-Solar		
10	Hybrid Power Generation Systems	Oral	F
10	Optimal Configuration and Analysis of Isolated		•
11	Renewable Power Systems	Poster	Q
	Research on Grid side PWM Converter Based	<u>1 03(C1</u>	¥
	on DSP for Double Fed Wind Power Generation		
12	_	Oral	F
12	System Research on Rotor side Converter Based on		F
10	DSP for Double Fed Wind Power Generation	Orol	
13	System	<u>Oral</u>	F
	Discussion on Manitarian Calegrade of		
	Discussion on Monitoring Schemes of		
14	Distributed Generation and Micro-grid Systems	<u>Oral</u>	K
4 5	PLC control system for Power plant coal	. .	
15	conveying link	Poster	Q
4.0	Research on 10kWp Photovoltaic Grid-		
16	connected System	Oral	K
17	Auto Testing System for Vehicle Generator	<u>Oral</u>	P
	Research on Modeling of BLDCM Control	_	-
18	System Based on S-function Builder	<u>Poster</u>	Q
	Construction of Various Energy Micro-grid		
19	Laboratory	Oral	K
	Development of the distributed generation		
	system based on various renewable energy		
20		Oral	G
20	system based on various renewable energy	<u>Oral</u>	G
20	system based on various renewable energy sources	<u>Oral</u>	G
20 26	system based on various renewable energy sources Analytical Research on Unified Power Quality	<u>Oral</u> <u>Oral</u>	G E
	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy		
	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system		
	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling		
26	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid-	Oral	E
26	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid- connected Device Research on elevator drive device with super	Oral	E
26 27	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid- connected Device	<u>Oral</u> <u>Oral</u>	E
26 27	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid- connected Device Research on elevator drive device with super capacitor for energy storage	<u>Oral</u> <u>Oral</u>	E
26 27 28	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid- connected Device Research on elevator drive device with super capacitor for energy storage Research on sliding mode variable structure	<u>Oral</u> <u>Oral</u> <u>Oral</u>	E K E
26 27	system based on various renewable energy sources Analytical Research on Unified Power Quality Conditioner based on super capacitors Energy Storage system Research on Current Feedforward Decoupling Control for Energy Feedback and Grid- connected Device Research on elevator drive device with super capacitor for energy storage	Oral Oral Oral Oral Oral	E

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	Research on hysteresis tracking control method		
	with constant switching frequency for UPQC		
33	based on Voltage Space Vector	<u>Poster</u>	Q
	The Implementation of a Novel Open-winding		
37	Permanent Magnetic Starter-generator	Poster	Q
	Sensorless control with two types of pulsating	<u>· · · · · · · · · · · · · · · · · · · </u>	
	high frequency signal injection methods for		
20		Destar	0
39	SPMSM at low speed	<u>Poster</u>	Q
	Simulation Research on a Novel Distributed		
41	Generation System	<u>Oral</u>	В
	A Novel Modulation Strategy for Three-Phase		
43	Four-Leg Matrix Converters	<u>Poster</u>	Q
	Study and Realization of a Non-Contact Power		
	Supply System with Fast Information		
44	Transmission Capability	Oral	N
	Design and simulation of a novel planar		
46	•	Oral	J
40	switched reluctance generator (Oral)		J
47	An adaptive control method for the linear		
47	switched reluctance motor (Oral)	<u>Oral</u>	J
	Design and Optimization for the Linear Switched		
48	Reluctance Generator (Oral)	<u>Oral</u>	J
	Optimized Active-Clamp Circuit Design for an		
	Isolated Full-Bridge Current-fed DC-DC		
50	Converter (Oral)	Poster	Q
	A non-linear dynamic model for an ultracapacitor	<u>· • • • • • · · · · · · · · · · · · · ·</u>	
51	energy buffer (Oral)	Oral	Е
51			
E 4	Algorithm research of i deadbeat control for		
54	photovoltaic grid-connected inverter	<u>Oral</u>	В
	Design of the Inverter in a grid-connected Small		
55	Scale Wind Power Generation System	<u>Oral</u>	В
	Hardware-in-the-Loop sytem for Battery		
57	management system in HEV	<u>Oral</u>	G
	Study of Small Wind Power Systemils Grid-		
	connected Inverter Based on Improved SPWM		
58	Current Control Algorithm	Oral	В
	Evaluation of Magnetic Field From Varied		
	Permutation Power Transmission Line at High		
61	•	Dester	Q
01	Technology Nano-Fab (Oral / Poster)	Poster	<u>v</u>
	Magnetoresistive Sensor Readout Circuit and		
	Field Canceling System in Next Generation	_	
62	Nano-Fab(Oral / Poster)	<u>Poster</u>	Q
	Optimization of Speed Control Algorithm to		
	Achieve Minimum Torque Ripple for a Switched		
63	Reluctance Motor Drive via GA	<u>Oral</u>	D
	Research on a novel switched reluctance		
64	generator for wind power generation	Oral	D
	Investigation on Parameters of Automotive	<u></u>	
65	Electromagnetic Active Suspensions	Oral	Р
0.5			
	C-core Switched Reluctance Generators for	O ₂₂ -1	_
66	Wind Energy	<u>Oral</u>	F
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67	Study of Art of Automotive Active Suspensions	<u>Oral</u>	Р
	DESIGN OF COIL STRUCTURE ACHIEVING		
	UNIFORM MAGNETIC FIELD DISTRIBUTION		
68	FOR WIRELESS CHARGING PLATFORM	Oral	Ν
	Research on Double-close-loop fuzzy controlled		
72	SVPWM VSR for EV charger	Oral	с
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	The Study of Distributed EV Charging Station		
70	The Study of Distributed EV Charging Station	Qual	•
73	Based on Network	<u>Oral</u>	С
l			
l	Analysis and Design of a New Cost Effective		
75	Converter for Switched Reluctance Motor Drives	<u>Oral</u>	D
l	Parameters Calculation and Optimized Design		
76	for Brushless Doubly-fed Reluctance Machine	Oral	D
70			<u> </u>
	Hardware-in-the-loop Simulation on a Hybrid		
77	Power System	<u>Oral</u>	M
	Study on Energy Management Strategy of		
l	Hybrid Electric Vehicle with an Electromagnetic		
78	Continuously Variable Transmission	Oral	G
	Shifting Process Study on AMT of a Parallel		
70			
79	Hybrid Electric Vehicle	<u>Oral</u>	Р
l	Understanding the Conducting States of Active		
	and Passive Switches in an Inverter Circuit		
80	Used for Power System Applications	<u>Oral</u>	M
	Research on Energy Management Strategy and		
	Real-Simulation in Hybrid Electric Tracked		
81	Vehicle	Oral	G
01			6
l	The Effective Improvement of the PMSM		
	System with the Self-control of the Carrier		
82	Frequency	<u>Oral</u>	L
	The Study of the On-board Charger with the		
83	Bridgeless PFE	Oral	N
	Study on the Fast Charging Method of Lead-	<u> </u>	
84	Acid Battery with Negative Pulse Discharge	Oral	N
04	Acid Dattery with Negative Fulse Discharge		IN
l			
l	Study on electromagnetic interference		
85	restraining of electrical vehicle charging system	<u>Oral</u>	М
l			
l	Electromagnetic and Thermal Coupling Analysis		
86	and Structure Optimization of Induction Heater	Oral	н
	Development of Embroidery Machine Vector		
l	-		
07	Control Speed Regulation System Based on		
87	DSP	<u>Oral</u>	L
	Integral sliding mode control and its application		
88	on Active suspension system	Oral	Р
	Study and Implementation of a Single- Stage		
	Study and Implementation of a Single- Stage		
89	Study and Implementation of a Single- Stage Contactless Power Supply with High Power		N
89	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection Mechanism	Oral	N
	Study and Implementation of a Single- StageContactless Power Supply with High PowerFactor and Load/Gap Detection MechanismOptimization design on salient pole rotor of	<u>Oral</u>	
89 91	Study and Implementation of a Single- StageContactless Power Supply with High PowerFactor and Load/Gap Detection MechanismOptimization design on salient pole rotor ofBDFM using the Taguchi method		N D
	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection MechanismOptimization design on salient pole rotor of BDFM using the Taguchi methodA Novel Position Detection Method of	<u>Oral</u>	
91	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection MechanismOptimization design on salient pole rotor of BDFM using the Taguchi methodA Novel Position Detection Method of Sensorless Brushless DC Motor Based on	<u>Oral</u>	
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91 92	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection MechanismOptimization design on salient pole rotor of BDFM using the Taguchi methodA Novel Position Detection Method of Sensorless Brushless DC Motor Based on dsPICSimple Modeling and FEM Simulation of a Double-rotor Disc-type PM Synchronous	<u>Oral</u> <u>Oral</u> <u>Oral</u>	DJ
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91 92 93	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection MechanismOptimization design on salient pole rotor of BDFM using the Taguchi methodA Novel Position Detection Method of Sensorless Brushless DC Motor Based on dsPICSimple Modeling and FEM Simulation of a Double-rotor Disc-type PM Synchronous Generator for Wind Power Generating SystemA Review of International charging coupler	Oral Oral Oral Oral	D J F
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91 92 93 94	Study and Implementation of a Single- Stage Contactless Power Supply with High Power Factor and Load/Gap Detection MechanismOptimization design on salient pole rotor of BDFM using the Taguchi methodA Novel Position Detection Method of Sensorless Brushless DC Motor Based on dsPICSimple Modeling and FEM Simulation of a Double-rotor Disc-type PM Synchronous Generator for Wind Power Generating SystemA Review of International charging coupler Standards and its availability in Hong Kong A web site design method in Green energy teaching	Oral Oral Oral Oral Oral Oral	D J F N

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	Influence of Control Strategies on		
	Motor/Generator Load Characteristics in Parallel		
97	Hybrid Electric Power Train	<u>Oral</u>	L
	Study on the Dead-time Effection in PWM		
99	Inverter Control of Electric Vehicle's Motor	<u>Oral</u>	L
	Study on the Dynamical Characteristic for		
101	Voltage-feedback Push-Pull DC-DC Converter	Oral	н
	Study on control strategy of V2G in power		
102	peaking	Oral	В
	Comparison of Control strategies for DC/DC		
103	Converter	Oral	н
	Auto Disturbances Rejection Control of Wind		
	Energy Conversion System Based on DFIG		
104	under Unbalanced Grid Voltage	Oral	м
	Interaction Analysis of FACTS Controllers		
105	Based on Relative Gain Array Principle	Oral	м
	Design and Simulation of a Linear Switched	016	
	Reluctance Generator for Wave Energy		
107	Conversion	Oral	G
108	Charging Network for Electrical Vehicles	Oral	C
100	Survey of Modeling Methods for Flux Linkage of		U
109	Switched Reluctance Motor	Oral	J
100	Energy management system using ultra-		
111	capacitor as energy buffer	Oral	Е
	Feasibility Study on Electric Buses in Hong		
112	Kong	Oral	С
112	A SURVEY OF DISTRIBUTED POWER		
	SYSTEM-AC versus DC distributed power		
	system		
113	System	Oral	к
114	SRM Motor Drive	Oral	
115	LED driver for medical electronics	Oral	H
115			11

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Charging System and Energy Storage

Session Information

Session No.	Session Name	Venue	Time
А	PV systems	PolyU, Rm Y302	8 Jun., 14:00-15:40
В	Distributed generation & grid-connections I	PolyU, Rm Y303	8 Jun., 14:00-15:40
С	Chargers & Charging technologies I	PolyU, Rm Y304	8 Jun., 14:00-15:40
D	Motor & drive control I	PolyU, Rm Y305	8 Jun., 14:00-15:40
E	Energy storage:Super/Ultra Capacitor	PolyU, Rm Y306	8 Jun., 14:00-15:40
F	Wind energy	PolyU, Rm Y302	8 Jun., 16:00-18:00
G	Battery management & energy conversion	PolyU, Rm Y303	8 Jun., 16:00-18:00
Н	Power converters/inverters	PolyU, Rm Y304	8 Jun., 16:00-18:00
J	Motor & drive control II	PolyU, Rm Y305	8 Jun., 16:00-18:00
K	Distributed generation & grid-connections II	PolyU, Rm Y306	8 Jun., 16:00-18:00
L	Motor & drive control III	Science Park, Hall 04	9 Jun., 16:00-18:00
Μ	Distributed generation & grid-connections III	Science Park, Hall 05	9 Jun., 16:00-18:00
N	Chargers & Charging technologies II	Science Park, Hall 06	9 Jun., 16:00-18:00
Р	Systems of electric/hybrid vehicles	Science Park, Hall 07	9 Jun., 16:00-18:00
Q	Various topics	PolyU, Core Y, Foyer	8 Jun., 14:00-15:30

Venue Details:

PolyU - Hong Kong Polytechnic University, Core Y, 3rd Floor

Science Park - Hong Kong Science and Technology Parks, Conference Hall Rooms