

**List of keywords for EPE 2009**  
**The 13<sup>th</sup> European Conference on Power Electronics and Applications**  
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**Keywords:**

Accelerators	Efficiency	IPM (Intelligent Power Module)
AC machine	Electrical Drive	JFET
AC/AC converter	Electrical machine	Land transport
AC-cable	Electric vehicle	Life Cycle Analysis (LCA)
Acoustic noise	Electroactive materials	Linear drive
Active damping	Electronic ballast	Load sharing control
Active filter	Electrostatic actuator	Locomotive
Active thermal control	Embarked networks	LTT (Light Triggered Thyristor)
Actuator	EMC/EMI	Machine tool drive
Adaptive control	Emergency power	Magnetic device
Adjustable speed drive	Emerging technology	Magnetic bearings
Adjustable speed generation system	Emerging topology	Maintenance
Aerospace	Emitter turn-off thyristor (ETO)	Marine
Airplane	Energy Control Unit (ECU)	Matrix converter
Alternative energy	Energy converters for FCEV	Measurement
Asynchronous motor	Energy converters for HEV	Mechatronics
Automotive application	Energy storage	Microwaves
Automotive component	Energy system management	Mission profile
Automotive electronics	Environment	Modelling
Automotive lighting systems	Estimation technique	Modulation strategy
Autotuning	Excitation system	Monolithic power integration
Battery charger	Expert system	MOS controlled device
Battery management systems (BMS)	FACTS	MOS device
Bipolar device	Fast recovery diode	MOSFET
Brushless drive	Fault handling strategy	Motion control
Bus bar	Fieldbus	Multi axle drives
Component for measurements	Flicker	Multilevel converters
Control methods for electrical systems	Flux model	Multi-machine system
Control of Drive	Flywheel	Multiphase drive
Converter circuit	Flywheel system	Nanotechnology
Converter control	Free wheel diode (FWD)	Neural network
Converter machine interactions	Fuel cell electric vehicle (FCEV)	Neuronal control
Cooling	Fuel cell system	New switching devices
Current limiter	Fuzzy control	Noise
Current source inverter (CSI)	GaAs-device	Non-linear control
Data transmission	Generation of electrical energy	Non-standard electrical machine
DC machine	Generator excitation system	Nuclear fusion
DC power supply	Harmonics	On-board network
DC-cable	High frequency power converter	Optimal control
Design	High power discrete device	Other semiconductor device
Device	High Power Density Systems	Packaging
Device application	High speed drive	Parallel operation
Device characterisation	High voltage IC's	Partial discharge
Device modelling	High Voltage power converters	Particle accelerator
Diagnostics	Highly dynamic drive	Passive component
Diamond	High temperature electronics	Passive component integration
Direct power control	HVDC	Passive filter
Direct torque and flux control	Hybrid electric vehicle (HEV)	Permanent magnet motor
Discrete power device	Hybrid power integration	Photovoltaic
Distributed power	IGBT	Physics research
Distribution of electrical energy	IGCT	Piezo actuators
Doubly fed induction motor	Induction heating	Power conditioning
Drive	Induction motor	Power converters for EV
Driver assistant systems	Industrial application	Power converters for FCEV
DSP	Industrial communications	Power converters for HEV
Dynamic Voltage Restorer (DVR)	Industrial information systems	Power cycling
Education methodology	Insulation	Power factor correction
Education tool	Integrated adjustable speed drive	Power integrated circuit
	Intelligent drive	Power management
	Interleaved Converters	Power Quality

Power semiconductor device	Signal processing	Thermal design
Power supply	Silicon Carbide	Thermal stress
Power transmission	Simulation	Three-phase system
Prognosis	Single phase system	Thyristor
Protection device	Sliding mode control	Traction application
Pulsed power	Smart Power	Transducer
Pulsed power converter	SMES (Superconducting Magnetic	Transformer
Pulse Width Modulation (PWM)	Energy Storage)	Transmission of electrical energy
Rail vehicle	Soft switching	Transistor
Real time processing	Software	Transversal flux motor
Real time simulation	Software for measurements	Unified Power Flow Controller
Regenerative power	SOI-device	(UPFC)
Regulation	Solar Cell System	Uninterruptible Power Supply
Reliability	Space	(UPS)
Reluctance drive	Standard	User application experience
Renewable energy systems	Standardization	Variable speed drive
Resonant converter	Static Synchronous Compensator	Vector control
Resonant-mode power supply	(STATCOM)	Virtual instrument
Reverse recovery	Stepping motor drive	Voltage Regulator Modules
Road vehicle	Supercapacitor	Voltage Sag Compensators
Robotics	Super Junction Devices	Voltage Source Converter (VSC)
Robust control	(CoolMOS)	Voltage Source Inverters (VSI)
Robustness	Surge arrestor	Water transport
Safety	Sustainable system/technology	Wave energy
Self-sensing control	SVC Static Var Compensator	Wind energy
Semiconductor device	Switched reluctance drive	Windgenerator systems
Semiconductor material	Switched-mode power supply	Wireless power transmission
Sensor	Synchronous motor	Wireless sensors
Sensorless control	System integration	ZCS converters
Servo-drive	Systems engineering	ZCZVS Converter
Ship	Teaching	ZVS converters
SiC-device	Test bench	