List of keywords for EPE 2011
The 14th European Conference on Power Electronics and Applications
30 August - 1 September 2011 – Birmingham, UK

Keywords:

AC machine
AC/AC converter
AC-cable
Accelerators
Acoustic noise
Active damping
Active filter
Active Front-End
Active thermal control
Actuator
Adaptive control
Adjustable speed drive
Adjustable speed generation system
Aerospace
Airplane
Alternative energy
Asynchronous motor
Automotive application
Automotive component
Automotive electronics
Automotive lighting systems
Autotuning
Bas emissions
Battery charger
Battery Management Systems (BMS)
Bipolar device
Bipolar diode
Bipolar Junction Transistor (BJT)
Brushless drive
Bus bar
Charge compensation device
Component for measurements
Conduction losses
Contactless Energy Transfer
Contactless Power Supply
Control methods for electrical systems
Control of drive
Converter circuit
Converter control
Converter machine interactions
Cooling
Current limiter
Current sensor
Current Source Inverter (CSI)
Data transmission
DC collector network
DC machine
DC power supply
DC-cable
Design
Device
Device application

Device characterisation
Device modeling
Device simulation
Diagnostics
Diamond
Digital control
Distribution FACTS (DFACTS)
Diode
Direct power control
Direct torque and flux control
Discrete power device
Distributed power
Distribution of electrical energy
Doubly fed induction motor
Drive
Driver assistant systems
DSP
Dynamic Voltage Restorer (DVR)
Education methodology
Education tool
Efficiency
Electric locomotives
Electric vehicle
Electrical drive
Electrical machine
Electroactive materials
Electronic ballast
Electrostatic actuator
Embarked networks
EMC/EMI
Emergency power
Emerging technology
Emerging topology
Emitter Turn-Off thyristor (ETO)
Energy Control Unit (ECU)
Energy converters for FCEV
Energy converters for HEV
Energy storage
Energy system management
Environment
Estimation technique
Excitation system
Expert system
FACTS
Fast recovery diode
Fault handling strategy
Fault ride-through
Fault tolerance
Field Programmable Gate Array (FPGA)
Fieldbus
Flicker
Flux model

Flywheel
Flywheel system
Free Wheel Diode (FWD)
Fuel Cell Electric Vehicle (FCEV)
Fuel cell system
Fuzzy control
Gallium Nitride (GaN)
Generation of electrical energy
Generator excitation system
Harmonics
High frequency power converter
High power density systems
High power discrete device
High speed drive
High temperature electronics
High voltage IC's
High voltage power converters
Highly dynamic drive
HVDC
Hybrid Electric Vehicle (HEV)
Hybrid power integration
IGBT
IGCT
Induction heating
Induction motor
Industrial application
Industrial communications
Industrial information systems
Insulation
Integrated adjustable speed drive
Integrated Circuit (IC)
Intelligent drive
Intelligent Power Module (IPM)
Interleaved converters
JFET
Land transport
Life Cycle Analysis (LCA)
Light Triggered Thyristor (LTT)
Lighting
Linear drive
Load sharing control
Locomotive
Machine tool drive
Magnetic bearings
Magnetic device
Maintenance
Marine
Matrix converter
Measurement
Mechatronics
Microwaves
Mission profile
Modelling
Modulation strategy
Monolithic power integration
MOS device
MOSFET
Motion control
Multi axle drives

Multilevel converters
Multi-machine system
Multiphase drive
Multiterminal HVDC
Nanotechnology
Neural network
Neuronal control
New switching devices
Noise
Non-linear control
Non-standard electrical machine
Nuclear fusion
On-board network
Optimal control
Other semiconductor device
Packaging
Parallel operation
Partial discharge
Particle accelerator
Passive component
Passive component integration
Passive filter
Permanent magnet motor
Photovoltaic
Physics research
Piezo actuators
Power conditioning
Power converters for EV
Power converters for FCEV
Power converters for HEV
Power cycling
Power factor correction
Power integrated circuit
Power management
Power plant performance
Power quality
Power semiconductor device
Power supply
Power transmission
Prognosis
Protection device
Pulse Width Modulation (PWM)
Pulsed power
Pulsed power converter
Rail vehicle
Reactive power
Real time processing
Real time simulation
Regenerative power
Regulation
Reliability
Reluctance drive
Renewable energy systems
Resonant converter
Resonant-mode power supply
Reverse recovery
Road vehicle
Robotics
Robust control

Robustness
Safety
Schottky diode
Soft switching
Self-sensing control
Semiconductor device
Semiconductor material
Sensor
Sensorless control
Servo-drive
Ship
Signal processing
Silicon Carbide (SiC)
Simulation
Single phase system
Sliding mode control
Smart grids
Smart microgrids
Smart power
Software
Software for measurements
SOI-device
Solar cell system
Space
Standard
Standardization
Static Synchronous Compensator (STATCOM)
Static Var Compensator (SVC)
Stepping motor drive
Street cars
Supercapacitor
Super junction devices
Superconducting Magnetic Energy Storage (SMES)
Supply quality
Surge arrestor
Sustainable system/technology
Switched reluctance drive
Switched-mode power supply
Switching losses
Synchronous motor
System integration
Systems engineering
Teaching
Temporary over-voltage
Test bench
Thermal design
Thermal stress
Thermoelectric energy
Three-phase system
Thyristor
Traction application
Transducer
Transformer
Transistor
Transmission of electrical energy
Tranversal flux motor
Ultra capacitors
Unified Power Flow Controller (UPFC)
Uninterruptible Power Supply (UPS)

User application experience
Variable speed drive
Vector control
Virtual instrument
Virtual prototyping
Voltage Regulator Modules (VRM)
Voltage sag compensators
Voltage sensor
Voltage Source Converter (VSC)
Voltage Source Inverters (VSI)
Water transport
Wave energy
Wide bandgap devices
Wind energy
Windgenerator systems
Wireless power transmission
Wireless sensors
ZCS converters
ZCZVS converters
ZVS converters