



SPEEDAM 2012

Sorrento (Italy) - June 20-22, 2012

21st edition of the **INTERNATIONAL SYMPOSIUM ON POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION AND MOTION**



FIRST ANNOUNCEMENT AND CALL FOR PAPERS



The Organizing Committee is pleased to announce the 21st edition of the *IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion*. The 2012 edition will be held in Sorrento, Italy - June 20-22, 2012.

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Abstract submission

You are invited to participate in the Symposium by presenting a paper within the delineated framework. In addition to the main topics, papers on other important subjects of the central Symposium themes will be considered for the inclusion in the Scientific Programme. Authors interested in submitting a paper are kindly requested to prepare a synopsis of three A4-pages at least. Files in .pdf or .doc format should be uploaded before November 30th, 2011 through the Speedam 2012 Registration Website available at: <http://registration.speedam.org>. The Website will open on 1st October 2011. The synopsis should be clearly headed with the title of the paper, the reference topic and eventual further keywords. The content should outline the subject along with a brief summary of the substance of the presentation, the techniques employed, the latest results in the field at issue, possible links with earlier studies, the goals achieved and the original contribution given. Key formulas, figures, tables and reference list are well-accepted. Mention in the reference list to papers presented in past SPEEDAM Symposia is welcome. Furthermore, on a separate page, authors should indicate their name, accreditation, address and the title of the paper, underlining the author to contact or correspondence.

The Venue

Sorrento Peninsula has a landscape unique in the world, where low and high hills, deep valleys and majestic mountains alternate, where the Man's work - who leveled even the most impervious areas, transforming them in the famous terraces degrading towards the sea, on which he cultivated orange and lemon trees, olive groves and vineyards - has been grandiose. These are the delight's gardens that in springtime exhale a stirring scent of orange - blossom. The mild and dry climate for most part of the year makes Sorrento Peninsula the ideal destination in every season. Moreover Sorrento Peninsula is also the starting point for numberless excursions: Pompei, Paestum, Naples and Vesuvius, Capri and Ischia, Positano, Amalfi and Ravello, and for any other destination, thanks to a thick network of aerial, road, railway and maritime links.



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ELECTRICAL DRIVES, AUTOMATION and MOTION

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Technical Topics in "SPEEDAM 2012"

T1 - Power Electronics

- Power Electronic Devices
- Converter Topologies, Modelling and Control
- High Frequency Power Converters
- Renewable Energy Applications
- Fault Tolerant Configurations
- Aerospace Applications
- Lighting Systems

T2 - Electrical Machines & Drives

- Modelling, Analysis & Design of Electrical Machines
- Finite Element Analysis
- Special Electric Machines & Actuators
- Electrical Drives Control
- Multi-Motor Drive Systems
- High Speed Drives
- Sensorless Control for Electrical Drives
- High Efficiency Drives
- Diagnostics in Electrical Machines & Drives
- Identification Problems
- Integrated Systems
- Home and Low Power Appliances
- High Performance Drives for Aerospace Applications

T3 - Smart-Grids Issues

- Concept and Structure of Smart Grids
- Distributed Generation Problems
- Power Electronics in Smart Grids
- Integration of Green Energy Technologies
- Integrated Energy and Communications
- MicroGrids

T4 - Electrical Power Quality

- Active Filters and Front-Ends
- ElectroMagnetic Compatibility (EMC) and Interference (EMI)
- Power Line Conditioners
- Perturbation Effects
- Power Quality Measurements
- Supply Continuity and Reliability

T5 - Electrical Traction

- Traction Systems
- Traction Drives
- Linear Motor Drives
- Superconductivity Applications
- Contactless Energy Transmission
- Diagnostics, Reliability, Dependability
- Communication Systems

T6 - Industrial Automation

- Field Bus and Communication Systems
- Mechatronic Systems
- Sensing and Testing Techniques
- Intelligent control and Signal Processing

T7 - Renewable Sources of Energy and Cogeneration

- Integration of Power System
- Energy Saving
- Energy and Environment
- Cogeneration and Hybrid Systems

T8 - Fuel Cells and Energy Storage

- Applications of Fuel Cells
- Supercapacitive Energy Storage
- High Speed Flywheels

T9 - Road Electrical Vehicles

- On-Board Energy Storage and Advanced Batteries
- Hybrid Configurations
- Drives for Road Vehicles
- Plug-in Electric and Hybrid Vehicles

T10 - Ship Propulsion and Marine Applications

T11 - Teaching and Continuous Education

- Virtual Labs
- E-Learning

Deadlines

30th November 2011: abstract deadline

15th January, 2012: notice of acceptance

15th April 2012: full paper submission

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