



# International Symposium on Power Electronics, Electrical Drives, Automation and Motion



UNIVERSITY OF NAPOLI



UNIVERSITY OF CATANIA

# SPEEDAM 2006

Taormina (Sicily)- ITALY  
23-26 May, 2006



UNIVERSITY OF CASSINO



NAGASAKI UNIVERSITY



IEEE

With technical co-sponsorship of IEEE Industrial Electronics Society



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Prof. Eiji Yamada  
University of Nagasaki (Japan)

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## Contact

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## FIRST ANNOUNCEMENT AND CALL FOR PAPERS

### Invitation

The Organising Committee is pleased to announce next SPEEDAM International Symposium on Power Electronics, Electrical Drives, Automation and Motion. It continues a long series started in earlier 70s, in a pioneeristic era for conferences in the field of Electrical Engineering. The Organising Committee is glad to invite you to SPEEDAM 2006 which will be held in TAORMINA (Sicily) - Italy- from 23 to 26 May 2006.

### Symposium Objectives

Traditionally SPEEDAM Symposium is a place where experts of industrial and academic world can discuss together with users about recent developments and actual trends in the field of POWER ELECTRONICS, ELECTRICAL DRIVES, AUTOMATION, ELECTRICAL ENERGY MANAGEMENT AND POWER QUALITY. Within these areas, SPEEDAM 2006 has also the aim to identify the most relevant applications evidencing main problems and strategies.

### Technical Topic Areas

#### New Age of Electrical Drives

- Converter Topologies and Control
- Power Electronics Applications
- Electrical Drives Control
- Power Electronic Devices
- Design & Optimization of Electrical Machines
- Finite Element Analysis
- High Efficiency Drives
- Multi-motor Drive Systems
- High Speed Drives
- Surface Motors
- Special Electric Machines
- Identification Problems
- Integrated Systems

#### Road Electrical Vehicles

- Energy Storage
- Hybrid Configurations
- Drives for Road Vehicles

#### Ship Propulsion and Marine Applications

#### Power Electronics in Aerospace Applications

#### Electrical Traction

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

#### Renewable Sources of Energy and Cogeneration

- Power Electronics for: Wind, Solar, Biomass, Photovoltaic, ... Energy;
- Energy Saving
- Energy and Environment
- Cogeneration and Hybrid Systems

#### Fuel Cells and Energy Storage

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

#### Power Electronics for Home Applications and Lighting Systems

#### Industrial Automation

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

#### Electrical Power Quality

- Active and Hybrid Filtering
- Active front-ends
- ElectroMagnetic Compatibility (EMC) and Interference (EMI)
- Power Line Conditioners
- Perturbation Effects
- Voltage-sharing
- Distributed Generation Problems
- Standards and Recommendations
- Electricity Market Liberalisation

#### Teaching and Continuous Education

- Virtual Labs
- E-Learning
- Electrical & Electronics Engineering Studies in the World



be updated on  
<http://www.speedam.org>



Attaianesi C. - University of Cassino - Italy  
Arkkio A. - Tech. Univ. of Helsinki - Finland  
Balestrino A. - University of Pisa - Italy  
Bellini A. - Univ. Tor Vergata of Rome - Italy  
Belmans R. - Kath. Univ. of Leuven - Belgium  
Binder A. - T.U. Darmstadt - Germany  
Braslavskij I. - Ural State T.U. - Russia  
Bressani M. - ASI Robicon Monfalcone - Italy  
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Jezernik K. - University of Maribor - Slovenia  
Kovacs E. - T. U. Miskolc - Hungary  
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Villerman Lecollier G. - Univ. of Reims - France  
Weh H. - T.U. Braunschweig - Germany  
Weibull H. - University of Lund - Sweden  
Yamada E. - University of Nagasaki - Japan

## Contributions

The Organizing Committee invites you 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 send a synopsis of two A4-pages at least. Files in .pdf or .doc format should be addressed by e-mail to the Symposium Secretariat before October 31st, 2005.

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.

Furthermore, on the first separate page authors should indicate their name, accreditation and address -evidencing the principal author for further correspondence- together with the title of the paper.

Authors will be informed by e-mail about the acceptance of their paper by January 15th, 2006. Selected authors will be requested to deliver their full length manuscript not later than March 31st, 2006.

## Venue

SPEEDAM 2006 International Symposium will be held in Taormina, at the Palazzo dei Congressi. Founded in 358 B.C. by Dionysius, tyrant of Syracuse, Taormina had changing fortunes throughout its thousand years of history. Its first Greek name Tauromenion means built up in Tauro area, the mountain upon which it rose but it is also linked to the legend of Minotaur, frequently represented in ancient coins. Under Romans, Tauromenion enjoyed a great period of splendour so that many famous noble families built luxurious villas to stay there permanently.

Another evidence of its historical background is the famous "Ancient Theatre", built by the Greeks and restructured in the Roman age. During Middle Age the city was destroyed by the Arabs and in 1078 it was taken by the Normans, under whom it flourished and became the capital of Sicily.

Today Taormina is famous all over the world not only for its ancient monuments and ruins of roman villas, but also for its irresistible fascination and the incomparable beauty of the landscape: eyes can space from the bay of Naxos to the Italian coast and to Etna, the most active volcano in Europe.

## Information

Details on the Symposium programme, on the social events and on the hotel accommodation will be published in the 2nd announcement and will also be available on the web site [www.speedam.org](http://www.speedam.org). For all further information please contact the Symposium Secretariat.

## Working Language

The working language of the conference is English, which will be used for all printed material, presentations and discussion.

## Authors Deadlines

Interested authors should note the following deadline dates:

**Submission of synopsis: October 31st, 2005**

**Notification of acceptance: January 15th, 2006**

**Submission of full-paper: March 31st, 2006**

Conference Proceedings  
will be published   
on IEEE Xplore



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