

INVITATION

The Organizing Committee has the pleasure of inviting you to participate in the IFAC Conference on Control Methodologies and Technology for Energy Efficiency, CMTEE 2010, to be held in Vilamoura, Portugal, March 29-31, 2010.

SCOPE

Due to the shortage of fossil fuel resources and to the increase of world energy demand, energy is one of the most important challenges that the world is facing. Regardless of the increasing use of renewable sources, and of the rates of fossil fuel resources decrease and of demand increase, the solution to the global energy problem will require to promote efficiency in all steps within the energy flow, from conversion from primary sources to secondary sources to consuming systems passing through storage, transmission and distribution systems. Control methodologies and technologies are key elements for improving systems efficiency, and as such, their use is spread through all the actors in this global energy realm. This conference, which is the first control conference specifically devoted to the theme of energy, invites control and automation contributions in the supplier area, in the consuming area, in storage transportation and distribution systems, and in co-, distributed- and micro-generation systems.

The Conference topics include control, modeling, management and automation applications in:

- Power plants: fossil fuel (coal, oil/petroleum, gas based), nuclear, geothermal, ocean-wave, tidal, biomass, solarthermal, solar-photovoltaic, wind, hydro, bio-mechanical)
- Co-, distributed- and micro-generation systems
- Energy storage systems (fuel cells, hydrogen production)
- Intelligent energy/power transmission and distribution
- Grid Integration of renewable power plants and energy storage systems
- Energy efficiency in transportation, HVAC, buildings, equipment, lighting, agriculture, industries
- Economics of renewable energy sources
- SCADA and Integrated Energy Management Systems
- Intelligent and remote sensing and metering
- Forecasting of environmental variables, of energy produced, and its use in control and management
- Environmental issues, including waste management, recycling systems and pollution control
- Energy harvesting for autonomous and biomedical applications
- Green data centers

PROGRAM

The scientific program will consist of

- plenary lectures by invited speakers,
- regular paper presentations in oral and poster sessions,
- invited sessions,
- panel discussions.

Papers on success stories and best practices are encouraged. All submitted papers will undergo the same review process. Accepted papers will be assigned to oral or poster sessions according to the IPC decision. For each accepted paper, at least one author is requested to register for the symposium upon delivery of the final paper.

PAPER SUBMISSION AND DEADLINES

Prospective authors are invited to submit contributions for regular and invited sessions electronically through the symposium website <http://www.cmtee.org>

All submitted contributions must be written in English and comply with the IFAC format, detailed in the instructions on the website. Submissions should be made in pdf format, and are limited to 6 pages.

Prospective organizers of invited sessions are invited to submit a set of 5 invited papers with a well-defined cohesive focus on a topic relevant to the symposium. In addition to the full draft papers of the session, a proposal for an invited session should also contain a 1-2 page summary, containing the aims and scope of the session. A special session will be accepted only if the session itself and its papers are accepted. Accepted papers from a non-accepted special session will be included in regular sessions.

Submission of draft papers and invited session proposals

OCTOBER 15, 2009

Author notification

DECEMBER 2, 2009

Final papers and early registration

JANUARY 15, 2010

Conference dates

MARCH 29-31, 2010

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IFAC COPYRIGHT POLICY AND CMTEE 2010 PUBLICATIONS

The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will be distributed to the participants on a CD/DVD together with a printed book of abstracts including the final program.

Papers duly presented at CMTEE 2010 will be hosted and freely available on-line on the IFAC-PapersOnLine.net website, and citable via an ISSN and a DOI. The papers presented will be further screened for possible publication in the IFAC journals (Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded as IFAC Publications.

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CMTEE 2010 SECRETARIAT
IFAC CMTEE 2010
Faculty of Science & Technology
University of Algarve
Campus de Gambelas
8005-139 Faro, Portugal
Fax: +351 289 800 06
Email: info@cmtee.org
Website: <http://www.cmtee.org>

VENUE



The Algarve has, among its 200 km of coast, some of the best and most beautiful beaches in the entire world. It is also one of Europe's top golfing destinations. It is a region rich in culture, with plenty of monuments to see, from Roman ruins to the fortress of Sagres (the nucleus of the Portuguese sea expansion), passing through a rich Islamic heritage, and a much diversified gastronomy.

Vilamoura is one of the largest single tourist complexes in Europe. Among the many attractions and facilities there are five different Golf Courses, a large Marina, 5 Star and 4 Star Hotels, Tourist Apartments, self-catering Villas, Restaurants, Pubs, Night Clubs, and a Casino. Vilamoura is 20 km away from Faro International Airport and is connected by highway to all the major cities in Algarve, the South of Spain (45 mins drive) and to the rest of Portugal (Lisbon, the capital is 280 km away, about 3 hours drive).

The Congress Centre of Tivoli Marinotel is the largest congress centre, attached to a hotel, in Portugal. It has 17 meeting rooms, with capacity and conference facilities capable of hosting events up to 1,500 people.

SPONSORS

CMTEE 2010 is sponsored by the IFAC Technical Committees on: Adaptive and Learning Systems (1.2), Control Design (2.1), Linear Control Systems (2.2), Non-Linear Control Systems (2.3), Optimal Control (2.4), Robust Control (2.5), Computers for Control (3.1), Computational Intelligence in Control (3.2), Telematics: Control via Communication Networks (3.3), Components and Technologies for Control (4.1), Power Plants and Power Systems (6.3), Automotive Control (7.1), Control in Agriculture (8.1), Modelling and Control of Environmental Systems (8.3), Biosystems and Bioprocesses (8.4), Economic and Business Systems (9.1), Developing Countries (9.3)

CMTEE 2010 is also co-sponsored by ASHRAE.

IFAC

CONFERENCE ON

CONTROL METHODOLOGIES AND

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VILAMOURA, PORTUGAL

WWW.CMTEE.ORG

CMTEE 2010
CALL FOR PAPERS

SUPPORTERS

