

TOULOUSE AND VISITS

Toulouse is the capital city of Midi-Pyrénées one of the largest EU regions and the first aeronautics and space center (AIRBUS, ASTRIUM, THALES, CNES, etc ..). It's also a research and higher education cluster with 6000 researchers working in 220 research bodies.

During your stay you will have the opportunity to visit major industries such as AIRBUS with particular chains of assemblages of the A380.

For the accompanying persons many possibilities are offered on: <http://www.grandsites.midi-pyrenees.fr/>

PAPER SUBMISSION

Draft papers max. 6 pages (max. 1MB file size) are invited in word format complying with IFAC-POL guidelines. All contributions must be in their final form according to IFAC style. Please refer to <http://www.ifac-control.org/events/> information-for-ifac-authors. Papers should be submitted on the web site : www.pppsc2012.org

VENUE

The 8th IFAC Symposium Power Plant and Power Systems Control will be held "in the center of Toulouse FRANCE".

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8th IFAC Symposium on



2 - 5 September 2012
Toulouse - France

DEADLINES

Submission of full draft papers: **30 November 2011**
Notification of acceptance: **1 March 2012**
Submission of full papers: **19 April 2012**
Early registration: **31 May 2012**

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Power & Plant & Power Systems Control

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SCOPE AND OBJECTIVE

Energy is one of the most important topics now and will remain so in the future. Generation and delivery systems have to meet new challenges caused by the worldwide increase in demand on the one hand and the wide-scale utilization of renewable based distributed resources on the other. The variety of modern power generation technologies calls for more complex and smart control of the system.

Modern converter technologies implemented in different applications pose new operational challenges but also offer more control flexibility. Additionally, the control characteristic of power systems will increasingly be affected by VSC HVDC transmission systems, which are set to be installed in many countries. Another issue affecting the energy production and consumption pattern is environmental considerations arising from the need for emissions control and energy conservation. To solve these and related future challenges, Smart Grid technologies will play increasingly significant role.

The symposium will showcase novel research results and applications in the control of emerging energy systems and processes. Particular emphasis will be placed on Smart Grid technologies together with all aspects of control of renewable energy sources using power electronic converter systems. Contributions dealing with power system operation and control in the modern context and possible improvements in the operational efficiency of conventional generation systems in interplay with emerging technologies are also welcome like hydrogen sources systems which are one of the challenges of the next decade.

TOPICS

- **Sustainable energy solutions and environmental aspects**
- **Smart Grid Technologies**
- **Operation, Planning and Analysis of Power Systems**
- **HVDC transmission systems and FACTS**
- **Deregulated Power Markets**
- **Instrumentation and Control Systems, Information Processing, Networking, and Communication**
- **Modeling, Simulation, Control Methods, and Real Time Operation**

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