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IFAC Technical Committee on Power & Energy Systems (TC6.3)

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TC 9.1. Economic, Business, and Financial Systems
TC 9.3. Control for Smart Cities

Call for Participation

We welcome sponsorship from industries, businesses, organizations, associations, regulators, schools and international bodies that wish to showcase products and services. We have put together a number of different packages to provide a level of participation that meets every need. We are open to other suggestions from sponsors as well. For more information visit the symposium website: <http://cpes2022.com>

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The 11th Symposium on Control of Power and Energy Systems (CPES2022)



The First Announcement and Call-For-Papers

June 21-23, 2022
Moscow, Russia

<http://cpes2022.com>

Scope

IFAC Symposium on Control of Power and Energy Systems (CPES) is a regular symposium held by IFAC Technical Committee 6.3 on Power & Energy Systems. CPES addresses all aspects of modeling, operation, and control of power plants and power systems, including dynamic interactions between power plants and power systems, constraint and security control aspects, tools and methods for control system design, test and documentation, real-time simulation and dispatching. Development and application of tools and methods such as modern control theory, computational intelligence techniques, and modeling of uncertainties are also important.

Specifically, IFAC CPES 2022 will focus at the emerging fields like optimal control and management of small and large decentralized units based on renewable resources such as hydro, wind, solar and biomass, the concepts of smart grid, wide-area monitoring and control, virtual power plant, intelligent control in energy systems, and design of energy markets.

IFAC CPES 2022 will renew the more than semicentennial tradition of IFAC events held in Moscow, taking its origin from the 1st IFAC World Congress in 1960.



Exhibition & Technical Tour

At the conference area in ICS: History of Russian control science, Artificial Intelligence technologies in Smart Grid Testbed of ICS. Plans to visit the System operator dispatching center, RT-Soft Building Energy Management Testbed are under preparation.

Students' Program

- Doctoral colloquium and Students' poster session
- Workshops for students: smart sensing & edge computing, digital twin modeling, deep ANN for PES
- Support of young authors from developing countries

Venue

V.A. Trapeznikov Institute of Control Sciences of RAS
65 Profsoyuznaya str., Moscow, 117997, Russia
(GPS Map 55.6513216126796N, 37.5364489910168E)

Deadlines

Submission of open invited track & invited session proposals:	Oct 17, 2021
Submission of full draft papers:	Dec 5, 2021
Notification of acceptance:	Feb 7, 2022
Submission of full papers:	Feb 27, 2022
Early registration:	Apr 4, 2022
Dates of Symposium:	Jun 21-23, 2022

Topics include (but not limited to)

- Power System Stability and Reliability
- Modelling and control of prosumer resources
- Decentralized control and management
- Intelligent control in smart grid
- Wide-area monitoring and control
- Virtual power plants
- Design of energy markets for smart grid

Paper Submission

Full draft papers (max. 6 pages and 1MB file size, in word and pdf. format complying with IFAC-POL guidelines) relating to one or more of the topics are encouraged. Draft papers online submission deadline is **Sunday, Dec 5, 2021**. All contributions must be in their final form according to IFAC style. Please refer to the following site:

<https://www.ifac-control.org/events/authors-guide>

During the final submission, at least one of authors should be registered for the paper to be included in the programme.

Moscow and Visits

Moscow, the capital of the Russian Federation and the second-biggest city in Europe, is easily accessed by 200+ direct flights from all over the world. Nowadays it is a fast-growing megalopolis with **modern smart city infrastructure**.

With its unique architecture and culture, dozens of world-famous theaters and museums, Moscow renders the plethora of recreation options including local restaurants, music festivals, entertainment areas and natural parks, being the perfect starting point for traveling to St. Petersburg to enjoy its 'white nights' and to many other landmarks of Russia, the world-biggest country.

Obtaining Russian visa may take time, so the visit should be planned beforehand. A free and simple 16-days electronic visa for citizens of 53 countries including EU, China, India, etc.

Situation with COVID-19

The situation with COVID-19 is unpredictable. However, we are prepared to organize CPES as a conventional in-person meeting, a hybrid symposium, or a purely online event at the planned date.

Contact

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