

# **IEEE** 33<sup>rd</sup> INTERNATIONAL CONFERENCE ELNANO-2013

APRIL 16-19, 2013 – KYIV, UKRAINE

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## CALL FOR PAPERS

### ORGANIZERS

- National Technical University of Ukraine “Kyiv Polytechnic Institute”
- National Aviation University

### FINANCIAL SUPPORT

IEEE Ukraine Section (Kyiv)  
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### IMPORTANT DATES

Paper submission deadline –  
**DECEMBER 01, 2012**  
Notification of acceptance –  
**JANUARY 20, 2013**  
Final Paper submission deadline –  
**FEBRUARY 16, 2013**

Working language for the Conference is English.

All accepted papers will be published in Conference Proceedings.

SEE DETAILS AT [HTTP://WWW.ELNANO.KPI.UA](http://www.elnano.kpi.ua)

### CONFERENCE TOPICS

#### 1. MICRO- AND NANO ELECTRONICS

- Nanostructures and nanotechnology in electronics;
- Components of micro- and nanoelectronics;
- Micro- and nanosystems in electronics;
- Mathematical simulation of electronic components, devices and systems.

#### 2. BIOMEDICAL ELECTRONICS AND SIGNAL PROCESSING

- Electronic nanotechnology in biomedicine;
- Biocomponents of nanosystems;
- Nanobiosystems simulation;
- Electronics for monitoring, diagnostics and treatment;
- Digital processing and analysis of biomedical signals;
- Interactions between physical fields and biological objects.

#### 3. POWER ELECTRONICS AND SMART GRID

- Smart Grid and Microgrid;
- Analysis, modeling, optimization and simulation;
- Microcontrollers, microprocessors;
- Frequency converters, voltage generators, power current rectifiers, thyristors, IGBT, current sensors;
- Control methods and real time operation;
- Modern technology and computation techniques;
- Energy efficient buildings.

#### 4. ELECTRONIC SYSTEMS

- Automotive electronics;
- Airborne electronic systems;
- Radar systems and signal processing;
- UWB electronic systems;
- Remote sensing;
- Multistatic electronic systems;
- Polarimetric and Doppler techniques.

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