

**Ministry of education, science, youth and sport**  
**Vinnytsia National Technical University (VNTU)**  
**Lviv Polytechnic National University'**  
**Donetsk National Technical University**  
**Lutsk National Technical University**  
**Technical University of Moldova, Kishiniv**  
**Duala University, Republic of Cameroon**  
**Amur State University, Blagoveshensk**

*I International Scientific-Engineering Conference*

**Optimum control of electric installations  
(OCEI -2011)**



**Vinnytsia**  
**25-27 October 2011**

The aim of the conference is to discuss problems of optimum control in electric power and electric mechanical systems to find common approaches to the problem, exchange ideas, establish contacts, determine trends of development of this branch of science, involve young scientists and researchers in scientific research. Special attention will be paid to application of mathematical simulation, optimization, measuring complexes, diagnostics computer systems, modern information technologies alternative and renewable sources of energy, decentralized sources of energy in local systems, energy conversion, energy saving technologies.

## Conference Areas:

- Theoretical problems of optimum control;
- Electric energy systems and their control;
- Electric mechanical systems, electric engineering complexes and their control;
- Electric technological processes and energy conservation .

**Official languages:** Ukrainian, Russian, English.

## SCIENTIFIC BOARD

**Chairman:** V. Grabko, Rector of VNTU

**Members:** M.Burbelo (Vinnytsia), E.Bardyc (Kyiv), L.Dobrovolska (Lutsk), I.Zabolotniy (Donetsk), I.Zhezhelenko (Mariupol), V.Klepikov (Kharkiv), O.Kozlov(Russia, Blagoveshensk), V.Kutin (Vinnytsia), V.Kukharchuk (Vinnytsia), P.Lezhniuk (Vinnytsia), G.Lusiak (Lviv), O.Loziński (Lviv), B.Mokin (Vinnytsia), J.-P.Ngoma (Cameroon, Duala), O.Nikitorovych (Vinnytsia), S.Peresada (Kyiv), D.Rodkin (Kremenchuk), O.Sadoviy (Dniprodzerzhynsk), M.Segeda (Lviv), V.Sivokobylenko (Donetsk), I.Stratan (Moldova, Kishiniv), O.Tolochko (Donetsk), O.Chorniy (Kremenchuk), O.Jandulskiy (Kyiv).

## ORGANIZING COMMITTEE

**Chairman** – S.Pavlov (VNTU, First vice- rector in charge of scientific work)

**Deputy Chairman** – P. Lezhniuk (VNTU, Head of the Chair of ESS ) V. Kukharchuk(Head of the Chair of TEEM

**Members:** V.Leontiev, V.Kovalchuk, L.Nechepurenko, A.Vlasiuk, M. Rozvodyuk, V.Komar.

## MAIN DATES

Submission of abstracts and application forms,	deadline September,10,2011
Notification of inclusion in the conference program	September,20, 2011
Submission of the texts of the papers and registration fee -	deadline - October, 14 2011
Beginning of the registration	October, 24 at 9:a.m.

## Registration Fee (without VAT)

	Citizens of Ukraine	Others
Scientists	150 UAH	U.S. \$50
Post-graduates	50 UAH	U.S. \$25
Students	30 UAH	U.S. \$15

Cost of registration fee includes participation in conference work and information support. Paying registration fee follows only after receipt of the message on inclusion in the conference program. In case of absence at the conference the paid registration fee is not reimbursed.

**Registration fees** should be transferred to the following VNTU account:

Recipient: VNTU Code 02070693

b/a 31259272210098

Bank: ГУДКУ in Vinnytsia Region. МФО 802015

Marked «Registration fee OCEI-2011»

for { First name and surname }

The accommodation for the participants of the conference is planned to provide in VNTU dormitories and Vinnytsia hotels (book in advance and for special payment). We will inform you about prices.

### For participation in the conference

it is necessary to submit paper and electronic form(e-mail is preferable):

**till september 10** – application form,abstract;

**till october 14** – text of the paper, copy of receipt or payment order for registration fee transfer and 2copies of experts' certificate

#### APPLICATION FORM (for each author)

First name and surname \_\_\_\_\_

Degree, academic rank \_\_\_\_\_

Country, city, institution \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

E-mail \_\_\_\_\_

Form of participation (report, co-author, panel discussion) \_\_\_\_\_

#### Materials of the conference:

Abstracts will be placed on the conference website before the beginning of the conference.

Reports, recommended for publication will be published in specialized journals of VNTU included to Higher Attestation Commission of Ukraine list: "Vysnyk VPI" , "Information technologies and computer engineering", "Optical-electronic informational and energetic technologies" and in electronic scientific journal "VNTU scientific works".

#### Address for communication:

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E-mail: [okey2011@vntu.edu.ua](mailto:okey2011@vntu.edu.ua)

Website of the conference:

<http://conf.vntu.edu.ua/energo/2011/>

#### Requirements for material presentation

**1. Abstract.** The length of the abstract should be one *full-page* A4-size printed in Word for Windows (2003 or lower) in one of the conference languages. The abstract should be submitted together with an application form. The abstract must be sent by e-mail as well as must be printed , signed by the authors and sent by the letter.

**2. Report(Article).** The report must contain brief characteristic of the problem and actuality of the problems to be solved with obligatory references to authorities; formulation of the problem, being considered; characteristic of the method of problem solution; results obtained; conclusions; references .Volume of publication---not less than 2 and not more than 3 pages. The reports must be sent by e-mail, as well as in printed form , signed by the authors and sent by the letter.

The report is supplied with: 1) experts' certificate for the report in two copies; participants from CIS countries must inform about the possibility of open publication of the report (2 copies ); 2) separate document—abstracts in three languages (Ukrainian , Russian , English), up to 10 lines, including the title of the article, names of the authors, references and annotation.

## Execution of the abstract and report

All margins: 22mm, A4-size. **Font:** Times New Roman Cyr, 11 pt, single-spaced. Symbol sizes *in formulas*: — 12pt ( $\Sigma$  - 12pt, table - 9 pt), subscript/superscript — 8pt ( $\Sigma$  - 11pt, table - 7pt), sub-subscript/superscript — 6pt ( $\Sigma$  - 8pt, table - 5pt), symbol — 10pt. Formulas inserted in the center. Formulas should be created in Equation Editor 3.0/3.1 (internal formula editor of Microsoft Word). Insert the **figures** in the following way: copy the figure to buffer then choose “Edit”, “Special Paste”, “Picture”; figure inscription 9 pt: fig. 1a; fig. 2 a, b. Figures are inserted in the center.

**Order of material arrangement:** 1) *UDK*: on the left in the upper line (11pt); 2) *Authors*: skip one line, then print initials and surnames, degree and affiliation of all co-authors (12pt, bold); 3) print the *report title* in capital letters (12pt, bold) in the center of the next line; spacing before and after – 6 pt; 4) Abstract without references in 3 languages 3-6 lines 5) 7-10 *key words*; 6) print *main text* from the new line and indent 11pt; 7) references; 8) Skip one line and write the information about authors, separately for each of the co-authors: name, surname, degree, academic rank, country, city, institution, personal contact information (phones, fax, e-mail, site).

## THE ARTICLE STRUCTURE:

(CODE) UDC 621.311

**V.M. Kutin, Dc.Sc(Eng), Prof.; M.O. Illukhin, Post-graduate student**

### OPTIMIZATION OF DIAGNOSTICS SYSTEM STRUCTURE ON THE BASIS OF CRITERIAL MODEL

—— ( abstract and key words) ——  
—— ( text of the article) ——  
—— (References )  
(information about the authors)

**Kutin Vasyl Mykhailovych** – Dc. Sc. (Eng), Professor, Ukraine, Vinnytsia, Vinnytsia national technical university, department of electric stations and systems, Professor of the Department, tel.: (0432)-598377

**Illukhin Maksym Olexandrovych** – Ukraine, Vinnytsia, Vinnytsia National Technical University, Department of electric stations and systems, post-graduate student, e-mail:maks-2608@mail.ru, tel.:0432) 598318

## CULTURAL PROGRAM

For the participants of the Conference excursions to the places of interest in Vinnytsia and Vinnytsia region are planned. Vinnytsia is situated on the banks of the river Southern Bug and it is the center of one of the most picturesque regions of Ukraine – Podillia. Wonderful natural landscapes are interlaced here with urbanized civilization and this creates the unique coloring. History has more than six centuries and during this period wars and revolutions were alternated with the times of rebuilding and prosperity. They all left their traces in interesting architectural monuments and cultural heritage of Ukraine.