



9th – 12th of September 2014

**Boboty Hotel
Terchová - Vrátna dolina,
Slovak Republic**

The 15th International Conference on Computational Problems of Electrical Engineering

organized by
**Faculty of Electrical Engineering
University of Žilina, Slovak Republic**



in cooperation with
**Warsaw University of Technology,
Lviv Polytechnic National University,
Technical University of Lodz,
University of West Bohemia,
Warsaw University of Life Sciences.**



First Call for Papers

ORGANISERS

The Conference is organised by the Faculty of Electrical Engineering, University of Žilina

in cooperation with Alumni Club of FEE UNIZA



University of Žilina campus

ADDRESS

All correspondence should be directed to:

CPEE 2014
Faculty of Electrical Engineering
University of Žilina
Univerzitná 1
010 26 Žilina
Slovak Republic

Email: cpee2014@fel.uniza.sk
Web Site: <http://cpee2014.uniza.sk>

ACCOMMODATION

The conference will take place at the hotel Boboty in Vrátna valley. The hotel Boboty is situated near the village Terchova, approximately 27 km from the centre of Žilina, and 230 km from Bratislava. The hotel Boboty is one of the few hotels located directly in Vrátna valley, in the beautiful surroundings of the National Park Malá Fatra. Mountain of Malá Fatra is beautiful and popular place for mountain hiking fans. Each room is equipped with private bathroom and WC, TV / SAT and radio. The hotel offers Finish sauna, pool, fitness-gym, billiards and recreational activities. Parking place is provided by the hotel free of charge.



Hotel address:

HOTEL BOBOTY
013 06 Terchová
Slovak Republic

tel: +421 41 569 5228,
fax: +421 41 569 5737

hotelboboty@vratna.sk
<http://www.hotelboboty.sk>

GPS: 49.236011,19.050289



<http://goo.gl/maps/aqM0x>

WELCOME

The international conference "Computational Problems of Electrical Engineering" CPEE was established in 1999, as result of agreement among several Polish and Ukrainian universities. The major role was played by the Warsaw University of Technology (Poland) and Lviv Polytechnic National University (Ukraine). Since the early years it was annually organized with the principal aim to discuss the modern trends in computational electrical engineering (mostly signal, circuit and field theories) leading to novel approaches in the numerical analyses, optimisation and design of various electrical systems. In the first years, only Polish and Ukrainian scientists and researches took part in this event. Later also participants from other countries such as Russia, Czech Republic, Slovakia, Hungary and also from Great Britain, France and Japan became regular participants. In 2010, the Czech Republic was appointed as the third organizing country. In 2014 the event is held for the first time in the Slovak Republic.

The conference is devoted to the development of modern tools for the analyses and design of complex electrical and non-electrical systems, development of effective approaches and methods for signal processing, analyses and design of electrical and electronic circuits and electromagnetic fields. Concerning the main scientific domains, the topics of the workshop can be expressed as:

- application of optimisation methods to the design of electrical systems by using field and circuit theory tools and signal processing,
- development of effective numerical methods of the analysis of the electromagnetic fields by applying finite element and boundary elements in 2D and 3D electromagnetic and coupled problems,
- development of new effective methods for the solution of specific biomedical problems, and radioengineering, telecommunication and antenna systems,
- development of efficient methods of signal processing based on the application of ICA, PCA, wavelet transformation, impedance tomography etc.,
- artificial neural and neuro-fuzzy networks approaches to the solution of signal processing tasks belonging to the estimation, identification, prediction and approximation of problems, education in the area of electrical engineering, computer science and application of the computer science.

Organisers of the conference hope that wide subjects and the fruitful international scientific environment may result in expansion of ideas and bring new trends in the development of the already well-established area of research. The conference will be this year focused on application of network, field and signal theory especially in the interdisciplinary fields.

Complete series of the event:

- CPEE 1999 Alushta, Ukraine,
- CPEE 2000 Solina, Poland,
- CPEE 2001 Alushta, Ukraine,
- CPEE 2002 Zakopane, Poland,
- CPEE 2003 Jazleevets, Ukraine,
- CPEE 2004 Zakopane, Poland,
- CPEE 2006 Odessa, Ukraine,
- CPEE 2007 Wilkasy, Poland,
- CPEE 2008 Alushta, Ukraine,
- CPEE 2009 Waplewo, Poland,
- CPEE 2010 Lázně Kynžvart, Czech Republic,
- CPEE 2011 Kostryna, Ukraine,
- CPEE 2012 Grybow, Poland,
- CPEE 2013 Roztoky, Czech Republic,
- CPEE 2014 Terchová - Vrátna dolina, Slovak Republic

Behind the scientific program, CPEE 2014 will provide basis for finding new personal contacts, friendships and, of course, for discussions. Social meetings such as an evening party and a trip are planned in order to foster personal and professional relationships and cooperation.

It is our great pleasure to invite you to this unique event, where professional interests will be magnified through a rich social program. We do believe that you will take part in the Conference and enjoy your stay in our picturesque country.

GENERAL AIMS OF CPEE 2014

- Exchange of information and ideas from the academic and industrial viewpoints in the sphere of Electrical Engineering and associated disciplines,
- Discussion on the modern trends in computational electrical engineering, mostly signal, circuit and field theories, leading to novel approaches in the numerical analysis, optimization and design of various electrical systems.

If you want to get further information, please visit our website at:

<http://cpee2014.uniza.sk>

Please, note that the conference web page is not functional at the moment. You will be informed as soon as it is ready.

CONTRIBUTIONS

The authors provide a one-page digest (including illustrations, only in the pdf format) that will be published in the printed Proceedings.

The instructions for authors and templates in MS Word format (.doc) will be soon available at the website:

<http://cpee2014.uniza.sk>

The authors will have several possibilities to publish full versions of their contributions in journals. Detailed information will be provided soon at the conference web page.

WORKING LANGUAGE

The conference language is English. The English language will be used for all printed material and papers published in the proceedings.

CONFERENCE PROCEEDINGS

One copy of the proceedings will be given to each conference participant.

CONFERENCE FEE

(Early Bird before June 30, 2014)

Registration fee for full participants:	280 €
Registration fee for students:	210 €

The fee includes full board, coffee breaks, accommodation, free internet access in reception area, social evening, trip (incl. entrance fee), wellness and sports offered by the hotel, and proceedings.

DEADLINES AND REQUIREMENTS

Submission of one-page digest:	31.05.2014
Confirmation of the accepted digests:	20.06.2014
Opening of the Conference:	09.09.2014

Registration and all further information will be announced at the conference web page:

<http://cpee2014.uniza.sk>