

## List of content

We shall meet the challenge – message from R8 Director .....	1
R8 meeting in Cyprus .....	2
A Hungarian representative in the Region 8 committees .....	2
European Wireless 2015 in Budapest ..	3
MT-ITS 2015 .....	4
SAE Summer Academy on Energy .....	5
Obituary .....	5
IEEE in 2030 Challenge seeks proposals for innovative projects .....	6
Save the Date: IEEE Day 2015 is 6 October .....	6
Vacancy .....	6
Imprint .....	6



## We shall meet the challenge – message from R8 Director

2015 offers us new opportunities within the global IEEE community. These may vary across the Regions but have one purpose to “foster technological innovation and excellence for the benefit of humanity”. Our Region 8 is the largest geographic region and the most diverse, with many kinds of people, languages and traditions. Our diversity can lead to creativity, innovation and productive cooperation. IEEE volunteers work as a team and we

aim to provide service to our members and to humanity as a whole.

What are some key challenges for us in the year ahead?

### Getting closer to Industry

More than half of our members work in industry. What do they need from IEEE products and services that could better support them and stimulate their professional development?

To find out, we intend to have each section appoint active members to be Industry Ambassadors. We set up an Action for Industry committee whose tasks are challenging.



### Students and Young Professionals

With IEEE activities, we need to find new ways to appeal to them. The first step was to set up teams in our students and young professionals committees.

The next is to help them with all possible tools, resources and support

available. Special emphasis is to add value to continuing membership. Regional SYP Congresses will aim to offer student members plenty of opportunities for interchange of ideas and social contact. Region 8 Student Congresses have been very successful and are now a model for many other IEEE regions which are planning similar events.

Our future events need careful planning: to find new ways to motivate our members, to create new competitions, to find smooth transition paths to retain IEEE members as young professionals. Chapters, Affinity groups and Sections will play a vital role here.

### Section Vitality

This is the cornerstone of all our activities. Active sections need to support their Chapters, Affinity Groups and Student Branches. This has long been recognised, but last year had renewed focus and I would like to see this to continue strongly into 2015. To be successful in this, a large number of volunteers will need to be found and nurtured.

Effective and inspiring leadership should be a mixture of young and old, academic and industry people from various areas of each Section. Appointments should be filled with capable people. Chapter, Affinity Group and Branch chairpersons should be

invited to Section executive committee meetings.

It can be hard to find the right volunteers but if we create the right mix of professionalism, technical knowledge and social atmosphere, we can achieve it.

*Costas Stasopoulos  
IEEE Region 8 Director 2015/16*



## R8 meeting in Cyprus

The 104th IEEE Region 8 Committee Meeting was held between 28-29 March 2015, in Limassol, Cyprus.

It was recommended that the chapters should be renew its' leadership. Although in the chapter bylaws not always limited the duration of the chair and secretary positions it shouldn't step over 2 x 2 years. It is a clear call to all the Hungarian chapters too.

Beyond the administrative topics some hints was emphasized to encourage the cooperation between the industry and IEEE. A full day program can be interesting for the companies with

common advertisement areas with IEEE (the two logos of the company and the IEEE raises the visibility of IEEE and also a free announcement for the company.) The third party of these events can be the government.



## A Hungarian representative in the Region 8 committees

Peter Nagy, IEEE Hungary Section Vice-Chair was appointed by the IEEE Region 8 Director Costas Stasopoulos as a member of the 2015 IEEE Region 8 Conference Coordination Subcommittee

The conference coordination subcommittee aims to facilitate the planning, development, implementation, coordination, and to monitor and provide oversight for Region 8 conferences, conventions and technical shows sponsored or cosponsored by Region 8, and liaise with and advise Societies and Technical Councils planning conferences in Region 8.

As you know Region 8 is the biggest Geographic Region and the more diverse one. We are proud that we bring together people from across geographic, ethnic and religious

boarders together. Let us all remember again the Vision and Mission of R8:

**Vision** Region 8 is an effectively organized, dynamic and influential entity, recognized as a leading and esteemed part of a truly transnational IEEE, with IEEE benefits equally available to all members

**Mission** To serve the needs of the members of the Institute, the profession and society at large, by enhancing and supporting the IEEE's Organizational Units and their activities within

And also let's not forget that IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.



Peter Nagy received the M.Sc. degree in Electrical Engineering from the Budapest University of Technology and

Economics in 2000, and MBA in 2005. Next he started to work for the National Media- and Infocommunications Authority. He was involved in many international projects and liaison with international organization. He held more positions at the IEEE Hungary Section (Student counselor, Industry Relations). He was a main local organizer, patronage or finance chair of IEEE WCNC2009, Future Internet Week 2011, IEEE VTC2011 Spring, IEEE ICC2013 in Budapest, IEEE ICC2014 in Sydney.

From 2000 he is the Operations Director of the Scientific Association for Infocommunications, Hungary (HTE), which is a Sister Society of IEEE. Lastly his recent project is to organize the IEEE WCNC 2015 in New Orleans with the support of the Organizing Committee, he is the Finance Chair.



## European Wireless 2015 in Budapest

The 21th European Wireless (EW) Conference took place in Budapest, Hungary, from 20-22 May 2015 and was organized by the Budapest University of Technology and Economics (BME) with the cooperation of VDE-ITG represented by Klaus D. Kohrt, Germany and HTE represented by Peter

Nagy, Hungary, both of them Sister Societies of IEEE Communications Society. BME is the most significant University of Technology in Hungary and is also one of the oldest Institutes of Technology in the world, having been founded in 1782. The 2015 edition of EW aimed at addressing the key theme on "5G and beyond", with a focus on the latest trends, developments and of course with the future applications on top of the mobile and wireless communications. The first day six tutorials, organized by Sergio Paazzo and Morten V. Pedersen, were offered in three tracks covering two different topics on 5G, Device-to-Device, IoT, network coding, and network programming for Android platforms.



The Technical Program of the conference consisted of 86 papers from over 30 countries selected after a detailed review process, and was enriched by three keynote talks by Eric Dahlmann, Muriel Médard, and Tommaso Melodia. Eric Dahlmann from

Ericsson explained the future of 5G and the evolution from previous cellular systems. Muriel Médard talked about the interaction between network coding and the physical layer. Tommaso Melodia gave an interesting speech entitled "Toward Ultrasonic Networking for Implantable Intra-body Networks".

EW2015 featured two workshops (organized by Christian Wietfeld, László Lengyel, and Péter Ekler): Workshop on Device-to-Device Communication for 5G Systems (WD2DC) and Workshop on Coding Techniques for 5G Networks. Continuing with the tradition of the European Wireless conference, the scope of EW15 was broad, including, in addition to the subjects of the main conference theme, the most relevant topics in modern communications. This was one of the reasons why most conference attendees, more than 100 colleagues, were present continuously during the conference.

Accepted papers (all available on IEEE Xplore) were organized into 16 technical sessions.



The next EW conference will be held in Oulu, Finland on May 18-20, 2016. The theme for European Wireless 2016 is "5G: Applications, Businesses and Technologies". More information can be found at <http://ew2016.european-wireless.org/>.

*By Hassan Charaf, Frank Fitzek,  
Leonardo Badia, Marcos Katz and  
László Lengyel*



4th IEEE International  
Conference on Models and  
Technologies  
for Intelligent Transportation  
Systems

**MT-ITS 2015**

The fourth edition of the conference series called Models and Technologies for Intelligent Transportation Systems (MT-ITS) in 2015 was held in Budapest, Hungary. It included all transportation modes and focused on issues of ITS development methods and traffic management aspects.

This year's conference was organized in cooperation with IEEE Hungary Section (IEEE HS) and Young Professionals

Affinity Group (IEEE YP AG), with the Hungarian Scientific Association For Transport (KTE) and with the Institute for Computer Science and Control (SZTAKI) in order to spread the news of the conference for local researchers and professionals.



The conference was structured in the following sessions:

- *in modeling oriented sessions*, as Traffic modeling and estimation, Traffic emission modeling and control, Vehicle energy optimization, Traffic modeling and assessment.
- *in public transport oriented sessions*, as Location data based applications, Public transport optimization and Transport policy management.
- *in solution of other transportation modes*, as Railway traffic optimization, Road transport communication, Air traffic management, Transport logistics and economics, Traffic monitoring.



As before in Rome (2009), Leuven (2011) and Dresden (2013) the conference aimed to bring together experts from science, industry and the public sector. Keeping the friendly and informal atmosphere of the conference was our main concern. During the social events we visited the glamorous Danube Palace and had a wonderful panorama boat trip on the river Danube during sunset, which provided excellent networking opportunities.

We believe that the reputation of the conference has been arisen, and we will have the opportunity to meet in the future in many different locations across Europe on further MT-ITS conferences.

*Domokos Esztergár-Kiss*  
IEEE Young Professionals Affinity Group  
chair





## SAE Summer Academy on Energy

The IEEE BUTE Joint IAS & PES Student Branch Chapter is proud to announce the 2nd SAE Summer Academy on Energy (SAE2), held from 24th to 28th August, 2015, in Budapest, Hungary. The Organizing Committee of SAE2 is encouraging undergraduate and MSc students from all over the world to apply for SAE2.

The main goal is to provide an opportunity to participating students to get acquainted with the concept of power grids. The main task of the summer academy is to plan the basics of a fictional country's sustainable electric power system, based on knowledge acquired from the lectures on the topics of conventional power plants, renewable energy utilization, structure of the power system, and its availabilities in energy storage, energy economics and environmental concerns.

*Ákos BALDAUF, Chair Budapest  
University of Technology and Economics  
IAS/PES Joint Student Branch Chapter*



## Obituary

With great sadness we have to announce that our dear friend Prof. Istvan Nagy passed away on July 6, 2015 in Budapest, at the age of 84, after a courageous struggle against cancer.

Only few months ago, he was very active, he worked 10 hours a day and he played tennis. Istvan was very strong, but the cancer was stronger. We lost a dear friend and it is a great loss for our professional community.

Our sincerest condolences go to his wife and family.

*Peter Korondi   Pavol Bauer  
Secretary of PEMC Council  
PEMC council member*



István Nagy, research professor at Budapest University of Technology, Hungary, conducted early research on excitation systems of turbine generators that fueled the development of four generations of large excitation systems for electric power plants in his home country and much of Middle and Eastern Europe. His department at the Research Institute of Automation and Computation jointly with another department in Budapest developed a fully automatic fuel handling system for nuclear power plants. Under his direction his department also developed high frequency inverters used in induction heating, single and three phase uninterruptible power supplies and inverter fed drives. Currently, his research team has been involved in environmentally friendly power production, specifically the efficient use of waste and renewable energies, including solar energy. An IEEE Fellow, Dr. Nagy has 13 patents and published over 250 papers and has previously received the Szechenyi prize that is the highest ranking in science in Hungary.



## IEEE in 2030 Challenge seeks proposals for innovative projects

IEEE has launched the IEEE in 2030 Challenge with the goal of finding innovative, creative, and potentially disruptive approaches that will help engineers and technical professionals working in industry. The IEEE New Initiatives Committee will be awarding small seed grants (US\$40,000 or less) to those projects that are selected.

Applications may be submitted by one or more IEEE members or organizational units, individually or in cooperation with an IEEE staff group. The proposals will be based on their potential to lead to new IEEE products, services, and communities, and have a significant impact on the overall organization.

The deadline for receiving proposals is 1:00 p.m. ET (17:00 GMT) on 24 August 2015. Notification of the proposal's acceptance or rejection will be made on 6 October (IEEE Day).

more infos on page:

[http://www.ieee.org/about/initiatives/2030\\_challenge.html](http://www.ieee.org/about/initiatives/2030_challenge.html)



## Save the Date: IEEE Day 2015 is 6 October

IEEE Day 2015 will be held on Tuesday, 6 October. This will be the sixth anniversary of IEEE members celebrating the anniversary of the first time IEEE members gathered to share their technical ideas in 1884.

Since the first IEEE Day event in 2010, the number of events worldwide has grown over 600%, from 80 to over 520! The IEEE Day team needs you to help grow this annual event even larger. This is a great opportunity for you to connect your members to IEEE on a local and global scale. Section and Chapter leadership engagement is critical to IEEE Day's success. Start collaborating with your volunteers and Student Branch leaders to plan and commemorate the day. No idea or event is too small.

Visit the IEEE Day 2015 website for more information. You can also follow IEEE Day on Facebook, Google+, and Twitter.

Thank you for all you do for the members of IEEE.



## Vacancy

The editorial office seeks volunteer co-worker to edit IEEE HS Newsletter. Please send your application to the office.



## Imprint

IEEE HS Newsletter

This is the official news of the "IEEE HS Villamosmérnökök Magyarországi Egyesülete" 1034 Budapest, Bécsi u. 96/b

Publisher: **IEEE HS**

Responsible for publishing: **Peter Kadar**

Editor in Chief: **Peter Kadar**

Dissemination: ieeehs mail list

News, infos: [peter.kadar@t-online.hu](mailto:peter.kadar@t-online.hu)

Date of closure: 20<sup>th</sup> of June, 2015



# CALL FOR PAPERS



## 16<sup>th</sup> IEEE International Symposium on

## Computational Intelligence and Informatics

### Honorary Chairs

*J. Fodor*, Óbuda University, Budapest  
*C. L. Philip Chen*, Univ. of Macau  
*B. M. Wilamowski*, IEEE Division II

### Honorary Committee

*R. Fuller*, HFA President  
*L. T. Kóczy*, HFA Honorary President

### General Chair

*Imre J. Rudas*  
Óbuda University, Budapest, Hungary

### Technical Program Committee Chairs

*R. Andoga*, Tech. Univ. of Košice, Slovakia  
*L. Kovács*, Óbuda University, Hungary

### Technical Program Committee

*R. Andoga*, Tech. Univ. of Košice  
*P. Baranyi*, BME  
*J. Dombi*, University of Szeged  
*I. Földes*, Óbuda University  
*L. Földes*, Tech. Univ. of Košice  
*P. Galambos*, Óbuda University  
*T. D. Gedeon*, Murdoch University  
*T. Haidegger*, Óbuda University  
*L. Hluchy*, Slovak Academy of Sciences  
*L. Horvath*, Óbuda University, Budapest  
*S. Jenei*, University of Pécs  
*Zs. Cs. Johanyák*, Kecskemét College  
*J. Kálmán*, Silesian University  
*P. Korondi*, BME  
*L. Kovács*, University of Miskolc  
*Sz. Kovács*, University of Miskolc  
*L. Madarász*, Tech. Univ. of Košice, Slovakia  
*L. Nadai*, Óbuda University, Budapest  
*E. Pap*, University of Novi Sad  
*I. Stajner-Papuga*, University of Novi Sad  
*Sz. Pletl*, Subotica Tech, Serbia  
*S. Preitl*, Politehnica University in Timișoara  
*R.-E. Præcup*, Politehnica University in Timișoara  
*P. Šincák*, Tech. Univ. of Košice  
*M. Takács*, Óbuda University  
*J. K. Tar*, Óbuda University  
*J. Tick*, Óbuda University  
*A. R. Varkonyi-Kóczy*, Óbuda University  
*T. Varkonyi*, Óbuda University

### Secretary General

*Aniko Szakal*, Óbuda University, Budapest  
szakal@uni-obuda.hu

### Organizing Committee Chair

*J. Gani*, Óbuda University, Budapest

### Organizing Committee

*F. Hegyesi*, Óbuda University  
*Gy. Károlyas*, Óbuda University  
*L. Madarász*, Tech. Univ. of Košice  
*K. Nemethy*, Óbuda University  
*A. Takács*, Óbuda University

November 19-21, 2015

Óbuda University  
Budapest, Hungary

### Sponsored by:

*IEEE Hungary Section*  
*IEEE Joint Chapter of IES and RAS, Hungary*  
*IEEE Computational Intelligence Chapter, Hungary*  
*IEEE SMC Chapter, Hungary*

### Technical Sponsors:

*IEEE Systems, Man, and Cybernetics Society*  
*Óbuda University, Budapest, Hungary*  
*Hungarian Fuzzy Association*

### Organizers:

*Óbuda University, Budapest, Hungary*  
*Hungarian Fuzzy Association*

The Symposium is organized with the focus of bringing together scientists from all over the world working on computational intelligence and its applications with the aims at providing an opportunity for sharing and discussing the recent research developments in this field.

### Venue

The Symposium will be held in building of Óbuda University (Rooms F7, F8 and F9, Bécsi út 96/B, H-1034 Budapest, Hungary).

### Language

The official language of the Symposium is English. All the camera-ready manuscripts should be submitted in English.

### Submission of Papers

There are invited and regular papers. Authors are kindly asked to submit their paper through electronic paper submission system on the website. Papers sent by e-mail are not acceptable.

### Instructions for Authors

To reach the format of the final manuscript and instructions please log on to <http://conf.uni-obuda.hu/cinti2015>.

### Author's Schedule

Full paper submission	August 18, 2015
Notification	September 15, 2015
Final manuscript submission	October 13, 2015

Presented papers are going to be included into IEEE Xplore database after the conference.

<http://conf.uni-obuda.hu/cinti2015>