

Report on 2016 Workshop on Networks Optimization and Dimensioning (2016 IEICE WNOD)

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1. Introduction

The goal of the Workshop on Networks Optimization and Dimensioning, held on 20-21 October 2016 at Poznań University of Technology in Poznań, was to further a discussion on telecommunications and computer networks. The workshop was organised jointly by the European Section of the IEICE (Institute of Electronics, Information and Communication Engineers) and with the involvement of the Poznań Research Circle of the The Polish Association of Telecommunication Engineers and the Chair of Telecommunications Networks at Poznań University of Technology. In addition, the Workshop was technically sponsored by the Communications Society of IEICE (IEICE-CS).



Fig. 1 Prof. Mariusz Głąbowski opening remarks.

The goal of the workshop was twofold. First, the Workshop was aimed to gather interest in the budding minds as the event was targeted at young scientists (ScD students, young research workers), while young scientists were given an opportunity to present their, sometimes quite significant, scientific achievements. Beside the presentations of the results of their research work, the participants were able to share their experience gained during their work in different projects. The other goal was to promote the activity of IEICE to young researchers in Poland.

The workshop was officially opened by Dr. hab. inż. Mariusz Głąbowski, associate professor, chairman of the European Section of IEICE. Prof. Głąbowski briefly presented the history of IEICE and the current activities and plans for the future of the Section. Prof. Głąbowski also invited the participants of the Workshop to attend the IEICE Information and Communication Technology Forum (<http://www.ictf2017.ieice-europe.org/>) scheduled to be held in Poznań again in July 2017. Prof. Głąbowski pointed out at the possibility of publishing research and scientific articles in the periodicals and journals published by IEICE. During the Workshop, the attending members of IEICE were able to provide answers to frequent questions related to the activity and operation of IEICE and its European Section.

2. Workshop Program

The program of the Workshop was divided into two sections. The first day of the conference was devoted to the presentations. The scope of the presentations was wide and included network optimization, evaluation of the effectiveness of data transfer over wired and wireless networks, network algorithms and issues related to energy efficiency of network devices, among others. This part of the Workshop included 13 presentations. It is worthwhile to add that the results of the studies presented in the workshop will be published in a special issue of the journal IMAGE PROCESSING & COMMUNICATIONS (ISSN: 1425-140X).



Fig. 2 Tytus Sielach (A proposal of a new structure for NetFPGA cards)

The second day of the Workshop continued with a presentation of the projects that are currently being executed in the research units represented by the participants of the Workshop. The ensued discussion clearly showed and highlighted that that type of a meeting like the one attended was necessary to provide a platform for an exchange of information on various competences and capacities within the context of future research needs and possible cooperation in research projects. It was also on this day that, thanks to the courtesy of the Research Section of Poznań University of Technology, the most important information concerning the current and planned projects to be announced by NCN (National Science Centre) and NCBiR (National Centre for Research and Development) to foster future intercollegiate cooperation (both at home and abroad) were presented. This presentation was prepared and given by Ms. Agnieszka Barcik and Ms. Anna Koralewska.

A particular link between the both parts of the Workshop were three technical presentations given by the invited guests, Mr. Ronald Mai (Spirent) and Ms. Ewa Tajkiewicz (Systemics-PAB). The presentations were designed to show and discuss the current issues in testing network systems security as well as efficient and safe network architecture. The subject matter of these presentations proved to be extremely interesting for the participants, many of them being students.



Fig. 3 Ronald Mai, Spirent

The closing session was presided over by Dr. hab. inż. Piotr Zwierzykowski, vice-president of the European Section of IEICE, who invited all the participants to attend the workshop at the AGH University of Science and Technology in Kraków due to be held next year.

3. Future Event

This year's edition of the IEICE Information and Communication Technology Forum will be held in Poznań (Poland) on July 4-6. The conference will be hosted by the Chair of Telecommunications and Computer Networks at Poznań University of Technology. The ICTF Forum was already hosted in Poznań in May 2014. Poznań is the capital of the Wielkopolska Province – one of the regions in Poland.

It is also a major industrial and academic centre. The themes addressed by the conference will include the following areas of inquiry:

- Information Processing,
- Communications,
- Engineering,
- Electronics.



Fig. 4 Poznań University of Technology (Lecture-Conference Center)

We believe that the conference will be an excellent platform for sharing ideas and discussions for both experienced and young research workers from Europe and Japan.

The conference web page is available at: <http://ictf2017.ieice-europe.org/> New information on the conference will be released and updated on a regular basis as soon as it is available (we have officially opened Call for Papers). All papers to be presented at the conference will be added to the I-Discover (IEICE Knowledge Discovery) data base.

Feel invited to join us during this event.