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Ryszard S. Romaniuk
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1 Distributed Measurement Systems
Tomasz Adamski, Warsaw University of Technology (Poland)
Wiesław Winiecki, Warsaw University of Technology (Poland)

2 Apparatus for Optical and Gamma Ray Astrophysical Observations
Filip A. Żarnecki, Warsaw University (Poland)
Lech Mankiewicz, Polish Academy of Sciences (Poland)

3 Optical Fiber Bragg Gratings
Kazimierz Jędrzejewski, Warsaw University of Technology (Poland)

4 Optical Fiber Technology
Jan Dorosz, Białystok University of Technology (Poland)

5 Distributed Measurement Systems
Tomasz Adamski, Warsaw University of Technology (Poland)
Wiesław Winiecki, Warsaw University of Technology (Poland)

6 WARMER
Andrzej Filipkowski, Warsaw University of Technology (Poland)

7 Optoelectronics
Michał Borecki, Warsaw University of Technology (Poland)

8 Image Processing
Władysław Skarbek, Warsaw University of Technology (Poland)

9 Optical Communications
Przemysław Krehlik, AGH University, Kraków (Poland)

10 Laser Technology
Ryszard S. Romaniuk, Warsaw University of Technology (Poland

11 Knowledge Discovery in Large Databases
Jan J. Mulawka, Warsaw University of Technology (Poland)

12 Data Categorization
Stanisław Jankowski, Warsaw University of Technology (Poland)

13 Photonics and Electronics for HEP Experiments
Krzysztof T. Poźniak, Warsaw University of Technology (Poland)
Maciej Linczuk, Warsaw University of Technology (Poland)

14 LHC and CMS
Jan Królikowski, Warsaw University (Poland)

15 Photonics and Web Engineering I
Maciej Linczuk, Warsaw University of Technology (Poland)

16 Photonics and Web Engineering II
Ryszard S. Romaniuk, Warsaw University of Technology (Poland)

17 WILGA 2009 SPIE Best Student Paper Awards
Ryszard Kossowski, Warsaw University of Technology (Poland)

Jachranka 2009 Symposium Session Chairs

1 Civilian Applications of Airborne SAR Systems
Krzysztof S. Kulpa, Warsaw University of Technology (Poland)
Maj Mordzonek, Przemyslowy Instytut Telekomunikacji S.A**.** (Poland)

2 Passive Radars
Joachim Schiller, FGAN - Research Establishment of Applied Science (Germany)
Jerzy Goca, Przemyslowy Instytut Telekomunikacji S.A**.** (Poland)

3 Signal Processing
Anna Dzvonkovskaya, University of Hamburg (Germany)
Wojciech Komorniczak, Military University of Technology, Warsaw (Poland)

4 DSP in Radars, Posters
Mikheil Chikhradze, G.Tsulukidze Mining Institute (Georgia)
Piotr Samczyński, Warsaw University of Technology (Poland)

5 Radar I
Felix J. Yanovsky, National Aviation University (Ukraine)
Jacek Misiurewicz, Warsaw University of Technology (Poland)

6 Image Processing / Signal Processing II
Abdel-Rahman Al-Qawasmi, Philadelphia University (Jordan)
Robert Hossa, Wroclaw University of Technology (Poland)

7 Radar II
Yulia Averyanova, National Aviation University (Ukraine)
Mateusz Malanowski, Warsaw University of Technology (Poland)

8 Medical Signal Processing
Pavlo Vyplavin, Institute of Radiophysics & Electronics, NASU (Ukraine)
Bohdan Butkiewicz, Warsaw University of Technology (Poland)

9 SAR / Noise Radars
Daniel O'Hagan, FGAN – Research Establishment of Applied Science (Germany)
Jerzy Pietrasiński, Military University of Technology (Poland)

10 Radar Phenomenology / Radar Polarimetryl
Jarosław Cechak, University of Defence (Czech Republic)
Zbigniew Czekała, RADWAr S.A. (Poland)

11 Navigation Technology
Natalie Kasperovych, National Aviation University (Ukraine)
Maciej Smolarczyk, Przemyslowy Instytut Telekomunikacji S.A**.** (Poland)

12 Radio Frequency Technology / Telecommunications
Ibrahim N. Abu-Isbeih, Philadelphia University (Jordan)
Krzysztof Kurek, Warsaw University of Technology (Poland)

13 Security / Ground Penetration
Konstantin Lukin, Institute of Radiophysics & Electronics, NASU (Ukraine)
Adam Kawalec, Military University of Technology (Poland)

14 Communications / Space Technology
Alicja Ossowska, German Aerospace Center DLR (Germany),
Tomasz Górski, Military University of Technology (Poland)

15 Lectures on Radar Technology
Krzysztof S. Kulpa, Warsaw University of Technology (Poland)

16 SPS 2009 Best Student Paper Awards and Best Poster Presentation Awards
Jerzy Pietrasiński, Military University of Technology (Poland)

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1 Image Processing, Optical Biometry
Władysław Skarbek, Warsaw University of Technology (Poland)

2 Optical Astronomy and Space Technology
Filip Zarnecki, Warsaw University (Poland)
Lech Mankiewicz, Polish Academy of Sciences

3 Radar Technology
Krzysztof S. Kulpa, Warsaw University of Technology (Poland)

4 Navigation and Target Tracking
Maj Mordzonek, Industrial Institute of Telecommunications, Warsaw (Poland)

5 Signal Filters and DSP
Felix J. Yanovsky, National Aviation University, Kiev (Ukraine)

6 Signal Modulation, Transmission and Detection
Jacek Misiurewicz, Warsaw University of Technology (Poland)

7 Lasers, Materials, Optical Fibers and Optoelectronics
Ryszard S. Romaniuk, Warsaw University of Technology (Poland)

8 Sensors, Remote Sensing and Measurement Networks
Tomasz Adamski, Warsaw University of Technology (Poland)
Wieslaw Winiecki, Warsaw University of Technology (Poland)

9 Databases Genetics and Biomedical Applications
Jan J. Mulawka, Warsaw University of Technology (Poland)

Introduction

The **SPIE-IEEE-PSP WILGA** symposium is part of international Forum of Young Science. It is annually organized under the eminent patronage of two international engineering institutions, SPIE [www.spie.org], IEEE [www.ieee.org], and their Polish Counterparts: Photonics Society of Poland [www.photonics.pl], the successor of the Polish Chapter of SPIE [www.spie.pl], and IEEE Poland Section [www.ieee.pl]. The patrons of the symposium are: the Polish Academy of Science (The Committee on Electronics and Telecommunication) [keit.pan.pl], Association of Polish Electrical Engineers (SEP) [www.sep.com.pl], and Warsaw University of Technology [www.pw.edu.pl].

The official language of the Symposium was English and the peer-reviewed papers are being published in the world renowned Proceedings of SPIE. The symposium was designed mainly for for Ph.D., M.Sc., and B.Sc. students (from physics, electronics and mechatronics) and their tutors/mentors. WILGA displayed a number of primary topics, the first being Photonics and Web Engineering. Generally, WILGA embraces advanced photonic and electronic systems in the following ways: theory, modeling, algorithms, simulations, design, hardware, software, hardware-software interaction, measurements, testing, commissioning, and exploitation.

The topical sessions are organized by leading experts and usually begin with current tutorials and are filled with contributed papers by students and young researchers. One of the most important session tracks in WILGA is the photonics applications and systems for superconductive accelerator technology (and free electron laser) and high energy physics experiments. We warmly invite students, young researchers, and their tutors to participate in WILGA conferences.

WILGA 2009 was held on 25-31 May at a resort owned by the Warsaw University of Technology. There were 200 presentations delivered covering a broad range of photonics applications and web engineering topics.

The Jachranka 2009 VI Signal Processing Symposium (SPS-2009) was held on 28-30 May 2009 at the GUS Holiday Camp in Jachranka Village near Warsaw. The main goal of the symposium was to create a forum for students and scientists to present their latest research results, new trends in science and technology, and exchange ideas during the technical and evening sessions.

The Jachranka meeting was part of the 24th SPIE-IEEE Symposium on Advanced Photonics, Electronics Systems, and Web Engineering. The SPS-2009 conference was organized by the Institute of Electronic Systems and Warsaw University of Technology together with the Przemyslowy Instytut Telekomunikacji S.A., Military University of Technology, RADWAR S.A, Space Research Center of Polish Academy of Sciences, Foundation for Development of Radiocommunication and Multimedia Technologies, IEEE Signal Processing Society Poland Chapter, and IEEE AESS Poland Chapter.

In 2003 Dr. K. Kulpa chaired and organized the first Digital Signal Processing and Radar Signal Processing Sessions of the 12th IEEE-SPIE Symposium on Advanced Photonics and Electronics. In 2005 and 2007 students from The Radiolocation and Digital Signal Processing Students' Research Group, along with Dr. Kulpa, decided to organize the second and third edition of the Signal Processing Symposium, which was a part IEEE-SPIE Symposium on Photonics, Electronics, and Web Engineering. SPS-2005 and SPS 2007 gathered more than 100 participants and have been considered very successful events, a fact that has led the Radar Group of ISE to organize for the fourth time to create the Signal Processing Symposium, SPS-2009.

Ryszard S. Romaniuk
Krzysztof S. Kulpa