

XXIIth IEEE-SPIE Joint Symposium on Photonics, Web Engineering, Electronics for Astronomy and High Energy Physics Experiments

30 May - 01 June 2008

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2009-05-25 MONDAY, Day 1

16:00 Meeting of the Organization Committee

18:00 Dinner

19:00 Symposium Organization Session

20:00 Grill

2009-05-26 TUESDAY, Day 2

08:30 breakfast

Symposium opening session - prof. dr hab. Ryszard Romaniuk, prof. dr hab. Wiesław Winiński

09:30 WILGA Symposium Opening Winiński Wiesław

09:45 (filler)

session - prof. dr hab. Adamski Tomasz

10:00 Security Testing Methods for Random Number Generators in Low-Power Distributed Measurement Systems Jakub Olszyna

10:15 Analysis of the quantum computing-resistant cryptographic methods Piotr Bilski

10:30 (filler)

11:15 coffee break

session - prof.nzw. dr hab. Wiesław Winiński

11:45 Cryptographic Random Number Generators for Low-Power Distributed Measurement System Paweł Czernik

12:00 Walsh-Hadamard Transform and its Application in Linearity Testing of Boolean Functions Michał Woś

12:15 (filler)

13:00 lunch

Astro Session (part1) - prof. Lech Mankiewicz

- 14:00 General overview of Pi of the Sky system (K. Małek, L. Mankiewicz) - -
- 14:15 Laboratory psf measurements of Pi of the Sky optical system Lech Wiktor Piotrowski
- 14:30 Hardware and software monitoring for Pi of the Sky experiment (M. Ptasińska, M. Zaremba, K. Nawrocki) - -
- 14:45 Zero noise CCD concept for "Pi of the Sky" Piotr Obrosiak
- 15:00 (filler)
- 15:30 coffe break

Astro Session (part2) - prof. Lech Mankiewicz

- 16:00 Identification of optical transients in real time Marcin Sokolowski
- 16:15 Gamma Ray Bursts and GRB080319B (A. Majcher, M. Sokołowski) - -
- 16:30 Variable stars classification based on photometric data from the Pi of the Sky project (M. Siudek, A. Majczyna) - -
- 16:45 Possible use of the 'Pi of the sky' system in a Space Situational Awareness program (R. Wawrzaszek) - -
- 17:00 (filler)
- 17:30 break
- 18:00 supper
- 19:00 break
- 20:00 grill

2009-05-27 WEDNESDAY, Day 3

08:30 breakfast

Wednesday session 1 - dr inż. Maciej Linczuk

- 09:30 FEM MODELING OF NANOINDENTATION EXPERIMENT FOR NANOSTRUCTURAL N – CARBON FILM. (N- PD, NI) Joanna Rymarczyk
- 09:45 The classification criterions of linearization methods Paweł Myszowski
- 10:00 Parallel Analysis of Transient States in Electric Motor Jarosław Forenc
- 10:15 Analysis and simulation of group delay dispersion compensation using prism pairs Maria Maciejewska
- 10:30 Detecting data anomalies methods in distributed systems Łukasz Mosiej
- 10:45 Crosstalk cancellation methods for mode group diversity multiplexing in multimode fibers Grzegorz Stepniak
- 11:00 coffe break

WARMER (part1) - prof. A. Filipkowski

11:30 (filler)

13:00 lunch

WARMER (part2) - prof. L. Opalski

14:00 Diversity of models for ion-selective sensors - behavioral and physical approaches Ogrodzki Jan

14:15 (filler)

15:00 coffe break

special session - prof. dr hab. Jan Dorosz

15:15 Multicore optical fibres for fibre laser application Marcin Kochanowicz

15:30 Nd³⁺/Yb³⁺ energy transfer in oxyfluoride silicate glass Jacek Żmojda

15:45 Measurement system of the absorption coefficient of the biological object subjected to biostimulation treatment by He-Ne laser (Łukasz Gryko

16:00 coffe break

Studies of Optoelectronics Devices - Michal Borecki

16:15 Interface for optical capillary sensor with replaceable capillary head Borecki Michal

16:30 Erbium doped fiber laser with DBR resonator Krzysztof Anders

16:45 Specific biomarcers of physiological and pathological state in cows vaginal fluid for multiparametric optoelectronic detection Kaja Urbańska

17:00 Studies of electroluminescence of thick film capacitor-like structures Mateusz Mroczkowski

17:15 Practical aspects of optical powering of active elements in sensing networks Marcin Jusza

17:30 break

18:00 supper

19:00 break

20:00 grill

2009-05-28 THURSDAY, Day 4

08:30 breakfast

Image Processing Sesion - prof. dr hab. Władysław Skarbek

09:30	Rate Control Algorithm for Wyner-Ziv Video Codec	Mariusz Jakubowski
09:45	Using GPU for face detection	Jacek Naruniec
10:00	Using colour for face verification	Mariusz Leszczyński
10:15	Filterless Gray Pattern Detection in 3D Modelling by Structured Light (Artur Nowakowski, Władysław Skarbek)	- -
11:00	coffe break	

Optical and Laser Technology - dr inż. Przemysław Krehlik

11:30	Time and frequency transfer via optical fiber	Przemysław Krehlik
11:45	Long distance time transfer in bi-directional optical fibre link	Łukasz Śliwczyński
12:00	Precise wavelength stabilization of the semiconductor laser	Łukasz Buczek

Thursday session 2 - dr inż. Radosław Belka

12:15	Raman and SEM studies of nanocrystalline Pd-carbonaceous films	Radoslaw Belka
12:30	Design and capture of real time speaking clock for PIC 16F74 microcontroller	Daniel Butenko
12:45	(filler)	
13:15	lunch	

Special Session on Knowledge Discovery from Medical Data-Bases (part1) - prof. dr hab.

J.J. Mulawka

14:15	The mathematical approach to the evaluation of diagnostic tests in Wilson disease (M Dądalski, M.Plutecki, P.Socha, J.J.Mulawka)	- -
14:30	Patient and control group body water parameter comparision with computer guided data retrival (T.Małecka, R.Maciejewski, P.Wąsie	- -
14:45	Knowledge discovery in ophthalmology: analysis of net form of Age-Related Macula Degeneration treatment outcomes (E.Tałaj, M.Ulińska, J.J.Mulawka, J.Szafik)	- -
15:00	Analysis of diabetic retinopathy treatment with application of artificial intelligence (S.Kwiecień, P.Wąsiewicz)	- -
15:15	(filler)	
15:45	coffe break	

Special Session on Knowledge Discovery from Medical Data-Bases (part2) - prof. dr hab.

J.J. Mulawka

- 16:15 Principle components analysis in the gait index approximation --
(M.Syczewska, K.Kocel, P.Wąsiewicz)
- 16:30 Epileptic database exploration via the R environment (D.Dunin- --
Wąsowicz, P.Zieliński)
- 16:45 Data mining analysis of children's blood pressure in a nation-wide --
health survey (P.Wąsiewicz, Z.Kułgaga)
- 17:00 Application of Weka environment to classify and compare healthy Aldona Wierzbicka
children, those children with simple obesity and with nonalcohol
- 17:15 Statistical relationship discovery in SNP data using Bayesian networks --
(P.Szlendak, R.Nowak)
- 17:30 (filler)
- 17:45 break
- 18:15 supper
- 19:15 break
- 20:15 grill

2009-05-29 FRIDAY, Day 5

08:30 breakfast

Friday session 1 - dr inż. Maciej Linczuk

- 09:30 Diagnostic of femtosecond laser pulses Piotr Rudawski
- 09:45 Non-linear fluorimetry of phytoplankton and possibility of using it as Fedor Kuzminov
bioindicator of water media.
- 10:00 CCD cameras for Pi of the Sky experiment Grzegorz Kasprowicz
- 10:15 (filler)
- 11:00 coffee break

Friday session 2 - dr inż. Maciej Linczuk

- 11:30 Optical interface in sound's driving Mariusz Daziński
- 11:45 The Swept Source OCT driver Maciej Pankowicz
- 12:00 Two-channel FM transmission of a video signal beyond of the baseband Marcin Kowalczyk
- 12:15 X-RAY AND TISSUE MICROARRAY IMAGES PREPROCESSING Yauheniya Lisitsa
AND ANALYSIS
- 12:30 Review of active materials for tunable laser sources Łukasz Gorajek
- 12:45 (filler)

13:00 lunch

Friday session - dr inż. S.Jankowski

14:00 Orthogonal least squares classification of electrocardiographics signals --
(Adam Tomaszewski, Stanisław Jankowski)

14:15 Differential evolution for hyperparameters optimization of LS-SVM --
(Sebastian Kryś, Stanisław Jankowski)

14:30 Influence on statistics for testing neural networks (Marcin --
Wojcieszonek, Stanisław Jankowski)

14:45 Recurrent learning systems (Zbigniew Szymański, Stanisław Jankowski) --

15:00 Analysis on medical data bases (Jacek Dusza) --

15:15 coffe break

PERG session (part1) - prof. R.Romaniuk

15:45 Activities of PERG/ELHEP in 2008/09 Romaniuk Ryszard

16:00 Parametrization of vhdl components. Agnieszka Zagoździńska

16:15 Project of measurement card compatibility with ARM9 processor. Łukasz Kolator

16:30 FPGA cores development in open source environment Wojciech Zabołotny

16:45 Component Internal Interface Framework inż. Paweł Drabik

17:00 (filler)

17:30 break

18:00 supper

19:00 break

20:00 grill

2009-05-30 SATURDAY, Day 6

08:30 breakfast

PERG session (part2) - prof. R.Romaniuk

09:30 Research Group Management System Kamil Maj

09:45 CMOS camera readout electronic influence on scientific data. Piotr Sitek

10:00 Smart Shirt - communication in medicine Marek Wilczewski

10:15 Application of FIR filters for conditioning IF signal in FLASH experiment Tomasz Stanislawski

10:30 CERN and the LHC Interlock System Maciej Kwiatkowski

10:45 Universal Measurement System with Web Interface Maciej Lipinski

11:00 coffe break

PERG session (part3) - prof. R.Romaniuk

11:30	Irradiation Experiments System	Stefan Korolczuk
11:45	Radiation tests of Xilinx Spartan 3 at MARIA nuclear reactor	Stefan Korolczuk
12:00	Universal platform for high speed Digital Signal Processing	Kamil Lewandowski & Łukasz Dymanowski
12:15	Distributed Internet Based Site Development System	Mateusz Szczygielski
12:30	Improving web application security with data mining	Arkadiusz Kalicki
12:45	Multichannel Acquisition System with Photomultiplier Detectors	Michał Bohdanowicz
13:00	lunch	

PERG session (part4) - prof. R.Romaniuk

14:00	Controlling of the RF Gun using DOOCS server	Piotr Więckowski
14:15	Project and realization of fast A/D and D/A conversion channel using FPGA to analyze and process signals	Tomasz Janicki
14:30	Electronics development for space-based photons polarimeter POLAR.	Dominik Rybka
14:45	RPC Muon Trigger system	Krzysztof Pozniak
15:00	Geolocation platform over REST protocol	Przemysław Łącki
15:15	(filler)	
15:30	coffe break	

Newbie & Post Deadline Session - dr inż. Maciej Linczuk

16:00	(filler)
17:30	break
18:00	supper
19:00	break
20:00	grill

2009-05-31 SUNDAY, Day 7

08:30	breakfast
09:30	sports activities
13:00	lunch
14:00	Symposium Summary
15:00	Farewell