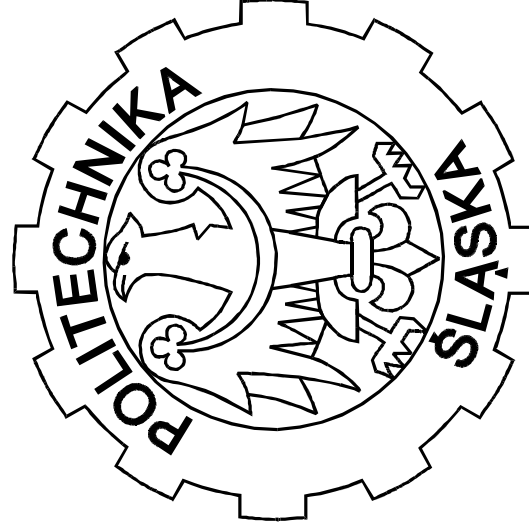


PROGRAM OF
THE THIRD INTERNATIONAL PHD STUDENTS'
WORKSHOP
CONTROL & INFORMATION TECHNOLOGY

IWCIT'03



Organised by Institute of Electronics
Faculty of Automatic Control, Electronics and
Computer Science
Silesian University of Technology
Gliwice, Poland

September 22, 2003

8:00 - 9:30	Registration
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September 22, 2003 Section A

10:00- 11:40 Session - Information Technology	
1	Borowik Łukasz Internet teaching and testing file based on Java Server Pages Technology
2	Dustor Adam Application of parametric models to speaker verification
3	Chmiel Pavel Parameters optimization of fuzzy-neural dynamic model
4	Rój Michał Data Mining Techniques in Ubiquitous Computing
5	Pietruszkiewicz Wiesław An application of the discrete dynamical system models in an Early Warning System forecasting financial distress

11:40 - 12:00 coffee break

12:00- 13:20 Session - Information Technology	
6	Frańczek Jacek Vertical Partitioning of Tables in Data Warehouse Systems
7	Želasko Petr The expansion of fuzzy modelling support in C-programmable microprocessors
8	Lach Ewa Genetic programming in the animation of human avatars
9	Lach Jacek Sniffing computer networks

13:20 - 15:00 lunch break

September 22, 2003 Section A – continued

15:00- 16:20 Session - Information Technology	
10	Szczepaniak Rafał Analysis and processing of information contained in DNA microarrays.
11	Witko Krzysztof Visualization of features and corresponding image data in bone age assessment
12	Dzega Dorota The implementation of probabilistic networks in an Expert System supporting operational risk management
13	Witczyński Maciej Internet Based Engineering Design in Distributed Environment of Virtual Organization

16:20 – 16:40 coffee break

16:40- 18:00 Session - Information Technology	
14	Świderski Michał The use of Web Services in Web GIS
15	Moštěk Martin Methodology of Creating and Tuning Neural Network Models
16	Wais Piotr Real time correctness in distributed computing systems
17	Święćicki Mariusz An Artificial Immune network as classifier signal in stationary environment

September 22, 2003 Section B

10:00- 11:40 Session - Signal Processing	
18	Gazdag Ferenc Helping the development of a measurement unit for the Power System
19	Šín Karel Resizing of the picture or its details using wavelet transform
20	Kubiczek Zdeněk Beneficial Use of Audio DSP Evaluation Module
21	Machacek Zdenek Digital Signal Processors in real-time applications for diagnostic

September 23, 2003

September 22, 2003 Section B – continued	
22	Kiss Péter Usage of floating point arithmetic in Power Systems measuring device
11:40 – 12:00 coffee break	
12:00- 13:20 Session - Control Systems	
23	Wiszczoł Tomasz .NET technology in manufacturing and control
24	Muszer Michał Analysis of noise inside a control room of water power plant
25	Czyż Krzysztof Internet-based active noise control laboratory
26	Czyż Rafał Identification and control algorithms for a "muscle wire-bias spring" system
13:20 – 15:00 lunch break	
15:00- 16:20 Session - Control Systems	
27	Krejcar Ondřej SCADA systems on mobile devices
28	Ožana Štěpán Spread of the Hydraulic Impact in Elastic Pipeline
29	Kłopot Tomasz Industrial application of distributed control system for foam extruder
16:20 – 16:40 coffee break	
16:40- 18:00 Session - Information Technology	
30	Zieliński Łukasz State of the art of evolutionary techniques (genetic algorithms)
31	Plesowicz Przemysław TCP/IP Networks Latency and Throughput Modeling For Automatic Control Purposes
32	Magiera Jarosław Security issues and architecture development in a distributed collaborative engineering environment

September 23, 2003 Section A	
9:00- 10:40 Session - Electronic Circuits and Systems	
33	Borowik Grzegorz FSM Implementation in embedded memory blocks of modern FPGAs using functional decomposition
34	Gamza Witold Build-In Self Repair BIST with Redundant Hardware
35	Trocki Krzysztof Implementation of a SIMD model of parallel processing in the architecture of modern general-purpose processors
36	Opara Adam Protocol converters
37	Rudnicki Tomasz Generation test pairs in order to detect delay faults
10:40 – 11:00 coffee break	
11:00- 12:40 Session - Electronic Circuits and Systems	
38	Penkala Piotr Functional Validation of Electronic Systems in a Distributed Environment
49	Szłęczak Marek XML-based tool description and integration
40	Stachura Dariusz Digital System Design Based on the Reuse Methodology
41	Garlicki Marek Log-domain oscillators
42	Fiołka Jerzy Cylinder Pressure Based Engine Knock Detection Using the Wavelet Transform

September 23, 2003 Section B	
9:00- 10:40 Session - Telecommunications	
43	Kucharczyk Marcin Simulation of an OFDM System
44	Toth Gergely Measure for Anonymity
45	Guzy Marcin The Dependence of EM Energy Absorption Upon Human Body modelling
46	Noga Artur Analysis of radiation and scattering problems using method of moments
47	Topa Tomasz Effects of radiofrequency and microwave dispersion on SAR distribution in human body
10:40 – 11:00 coffee break	
11:00- 12:40 Session - Telecommunications	
48	Kasprzak Damian 1xN waveguide splitters based on multimode interference structures made by ion exchange in glass
59	Więclawek Wojciech The InfiBand Architecture – introduction
50	Zarychta Piotr IBA - layers and components
51	Zakrzewski Tomasz IBA communication

13:00 – Closing of the IWCIT'03 Workshop