

# Programme of the **IWCIT'06** Conference

*21 September 2006*

**8:00 – 9:30**            **Registration**

## **Section A**

**10:00 – 11:40**            **Information Technology**

Bak Mariusz	<i>The Application of Support Vector Machines and Kernel Methods in Speaker Recognition</i>
Dumitru Corneliu Octavian	<i>Statistical and Hybrid Modelling for Digits Recognition in Romanian Language</i>
Kacprzak Przemysław	<i>Joint Trade of Flowgate Rights</i>
Petranek Pavel, Djouambi Abdelbaki	<i>Using Genetic Algorithm for Fractional Calculus</i>
Zoubek Lukas	<i>Use of Data Mining Methods to Improve Sleep/Wake Stages Classification</i>

**11:40 – 12:00**            **Coffee break**

**12:00 – 13:20**            **Information Technology**

Badura Paweł	<i>Adaptive Thresholding in Fuzzy Approach to Segmentation of Cruciate Ligaments</i>
Faur Daniela	<i>Changes Characterization for Anomaly Detection in Earth Observation Images</i>
Faur Daniela	<i>Algorithms Evaluation for Remote Sensing Image Segmentation</i>
Novakova Katerina	<i>Fuzzy-wavelet Based Image Compression</i>

**13:20 – 15:00**            **Lunch break**

**15:00 – 16:20**            **Information Technology**

Ćmielowski Łukasz, Walawender Patryk	<i>Application of Both PCA and ICA Algorithms for DNA Micro Arrays Gene Expressions</i>
Doniec Rafał	<i>The Optimization of Reflectance Measuring Method Blood Glucose from Dry Bar Code Tests</i>
Gruca Aleksandra	<i>Algorithm for Inducing Decision Rules Based on Rough Sets Theory</i>
Zarychta Piotr	<i>Registration of the T1- and T2-weighted MR Knee Images</i>

**16:20 – 16:40**            **Coffee break**

**16:40 – 18:00**            **Information Technology**

Walawender Patryk, Ćmielowski Łukasz	<i>Application of Fuzzy Logic to Gene Expression Analysis and Classification</i>
Więclawek Wojciech	<i>3D Segmentation of Anatomical Structures Applied Fuzzy Classification</i>
Youb Lamia	<i>Comparative Analysis of Classical PI Speed Controller and Fuzzy Controller Used in Direct Torque Control of Induction Motor</i>
Zarychta Piotr	<i>Localization of the Posterior Cruciate Ligament on the T1-weighted MR Knee Images</i>

## Section B

### 10:00 – 11:40 Control Systems

Chiulan Traian	<i>On-line Monitoring of Large Power Transformer Units</i>
Deaconescu Paula, Paturca Sanda Victorinne	<i>Scalar Command Using FEM Model of the Induction Machine</i>
Hořínek Pavel	<i>The Computation of the Electric Characteristics in the Overhead Power Transmission Line with LabView</i>
Paturca Sanda Victorinne, Deaconescu Paula	<i>Direct Torque Control of Induction Machine with Space Vector Modulation for Torque Ripples Reduction</i>
Vatajelu Elena Ioana	<i>Identifying an Electric Oven with Two Heating Zones</i>

### 11:40 - 12:00 Coffee break

### 12:00 – 13:20 Control Systems

Główka Teresa	<i>Mixed-Order Frequency Response Identification Method</i>
Latos Mariusz	<i>Active Noise Controller Based on Logarithmic Number System</i>
Ogonowski Szymon	<i>Control Algorithms for Heating System in Small Buildings</i>
Pyła Michał	<i>Three-dimensional Sound Intensity Field Measurement with Matlab and Siglab 20-42</i>

### 13:20 – 15:00 Lunch break

### 15:00 - 16:20 Electronics

Chruszczyk Łukasz	<i>Fault Diagnosis of Analog Electronic Circuits</i>
Izydorzycy Weronika	<i>Response of SnO<sub>2</sub>-based Gas Sensor Structure to Synthetic Air and Water Vapour</i>
Kubina Pavel	<i>Laboratory Thermo Regulator for Measuring Temperature Dependence of Biomedical Sensors</i>
Kurowski Ireneusz	<i>Use of Modular Neural Networks to Fault Diagnosis in Analog Active Filters</i>

### 16:20 – 16:40 Coffee break

### 16:40 – 17:40 Electronics

Izydorzycy Weronika	<i>Computational Approaches to the Electrical Properties of the Tin Dioxide Surface – Effect of Oxygen Adsorption</i>
Plešivčák Přemysl	<i>Mathematical Simulations and Experimental Verifying of Heat Transfer in Electrical Sensors</i>
Szelest Marcin	<i>Designing Complex Digital Circuits in Aspect of Disclosure Emission</i>

**22 September 2006**

### 9:00 – 10:40 Telecommunication

Biernacki Arkadiusz	<i>Stochastic Models for Multiplexed VoIP Traffic</i>
Brachman Agnieszka	<i>Admission Control in 802.11 Wireless Networks</i>
Floder Jan, Černý Martin	<i>ZigBee in Biotelemetry</i>
Imramovsky Martin	<i>USB Real-time Data Acquisition Module for Ultrasound Scanner</i>
Sulek Wojciech	<i>Performance of Reduced Complexity Decoding of LDPC Codes with Few Quantization Bits</i>