

June 8, 2016

Session 1A

MECHATRONIC SYSTEMS

ROBOTICS & CYBERNETICS

Chair: doc. Ing. Danica Rosinová, PhD.

09:00 - 11:00

Modelling and Control of AS/RS Using Coloured Petri Nets with PNetLab Tool

Erik Kučera, Oto Haffner, Štefan Kozák (ÚAMT)

Three-Tank Case Study

Peter Balko and Danica Rosinová (ÚAMT)

Design of the Image Scanning System with Reduced Power Consumption

Vladislav Bača, Igor Jakubička and Peter Fuchs (ÚAMT)

Performance Comparison of Glycemia Prediction Models with Recursive Parameter Estimation

Matúš Rebro, Marián Tárník, Ján Murgaš and Eva Miklovičová (ÚRK)

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Session 1B

MECHATRONIC SYSTEMS

Chair: doc. Ing. Vladimír Goga, PhD.

09:00 - 11:00

Component Based Design of Online Laboratories

Miroslav Gula (ÚAMT)

Experimental Measurements and Numerical Simulations of Eigenfrequencies of ACSR Conductor

Roman Gogola and Justín Murín (ÚAMT)

Application of Three Phase Brushless Motor Driver Information

Igor Jakubička, Vladislav Bača and Peter Fuchs (ÚAMT)

Finite Element Model of the Strain Gauge Rosette

Vladimír Goga and Jakub Bohuš (ÚAMT)

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Session 2

PHYSICAL ENGINEERING

NUCLEAR POWER ENGINEERING

ELECTRONICS & PHOTONICS

Chair: prof. Ing. Daniela Ďuračková, PhD.

09:00 - 11:00

Methodology of Radiation Degradation of PCBs

Ľubica Darážová, Andrea Šagátová and Vladimír Nečas (ÚJFI)

Prolongation of NPP Lifetime

Tomáš Brodziansky

Optical Fiber Temperature Sensors based on Long Fiber Bragg Gratings using Optical Frequency-Domain Reflectometry

Norbert Kaplan, Jozef Jasenek, Branislav Korenko and Jozefa Červeňová

Deep Level Transient Fourier Spectroscopy with Optical Excitation – Powerful Tool for Defect Characterization in Wide Bandgap Semiconductors

Miroslav Petrus, Robert Szobolovszky and Arpád Kósa

Recognition of Handwritten Numbers

Tomáš Kováčik and Daniela Ďuračková (ÚEF)

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Session 3

ELECTRICAL POWER ENGINEERING

Chair: prof. Ing. Vladimír Šály, PhD.

09:00 - 11:00

Calculation of Wind Turbine Power Using Matlab

Jozef Zuščak and František Janíček (ÚEAE)

Design procedure of verification the maximum power of distributed sources in regulatory area.

Michal Koníček, Anton Belán and Marián Ivanič (ÚEAE)

The Impact of Overhead Line Parameters Asymmetry on Faults

Marián Ivanič, Žaneta Eleschová and Michal Koníček (ÚEAE)

Evaluation of Selected Electrical Parameters Calculation Methods for Overhead Transmission Lines

Matej Cenký and Jozef Bendík (ÚEAE)

Calculation of Magnetic Flux Density Generated By Overhead Power Transmission Lines

Jozef Bendík and Matej Cenký (ÚEAE)

ELITECH '16



18th Conference of Doctoral Students
Faculty of Electrical Engineering and Information Technology
Slovak University of Technology in Bratislava

June 8, 2016

Session 4

TELECOMMUNICATIONS

ELECTRICAL ENGINEERING

Chair: doc. Ing. Kvetka Kotullaková, PhD.

9:00 - 11:00

Utilizing USRP in Matlab Simulations

Andrej Ralbovský and Tomáš Páleník (ÚT)

Texture Aware Video and Image Error Concealment

Ivana Ilčíková, Wanda Benešová, Jaroslav Polec and Tibor Csóka (UK, STU)

Phased array radar

Ferdinand Vavřík (ÚE)

SDR Based Capture of Physical and Data-link Layer Error Process Characteristics in Low-rate WSN

Tibor Csóka, Jaroslav Polec and Ivana Ilčíková (ÚT)