

Závěrečná správa

Dňa 25.5.2009 sa na Fakulte elektrotechniky a informatiky STU v Bratislave konala 11. konferencia doktorandov ELITECH '09. Prihlásených bolo 43 prác, z nich prezentovaných bolo 40. Podľa riešenej problematiky boli práce zaradené do 5 sekcií, pre každú sekciu bola menovaná odborná komisia, ktorej úlohou bolo navrhnúť na ocenenie dve najlepšie prezentované práce v sekcii. Ceny venoval dekan FEI a Slovenská spoločnosť pre kybernetiku a informatiku pri SAV.

Prezentované príspevky:

Sekcia I. Automatizácia, Meranie

Komisia: D. Rosinová, L. Syrová, I. Sekaj

1. CAMERA SELF-CALIBRATION
L. Noskovičová – R. Ravas
2. VECTORIZATION OF BINARY RASTER IMAGES
P. Čomaj – R. Ravas
3. CORRECTION AND QUALITY TESTING OF COLOUR IMAGES
M. Földi – R. Ravas
4. HEAT TRANSFER MODEL OF BUILDING CALIBRATED BY GENETIC ALGORITHM
S. Števo - A. Šlezárová
5. SPEED CONTROL OF BLDC MOTOR BASED ON HALL-EFFECT SENSORS
M. Suchánek
6. NEURAL CONTROL OF NON-LINEAR PROCESSES DESIGNED BY GENETIC ALGORITHMS
Z. Dideková – S. Kajan
7. ROBUST DECENTRALIZED CONTROLLER DESIGN FOR STABLE PLANTS
J. Osuský - V. Veselý - A. Kozáková
8. COMPARISON OF SOME FINE-GRAINED AND COARSE-GRAINED PARALLEL GENETIC ALGORITHMS WITH POPULATION REINITIALIZATION
I. Sekaj – M. Oravec

Sekcia II. Mikroelektronika, Rádloelektronika

Komisia: D. Ďuračková, Z. Krajčušková, M. Štofka

1. CURRENT STATUS AND PROGRESS IN THE NEW GENERATION'S SILICON BASED SOLAR CELLS
M. Mikolášek - L. Harmatha
2. MODERN TELECOMMUNICATION OPTICAL FIBERS
O. Kádár – F. Uherek - J. Chovan
3. CURRENT SENSING COMPLETION DETECTION IN ASYNCHRONOUS CIRCUITS
L. Nagy – V. Stopjaková
4. EFFECT OF ANNEALING ON THE STRUCTURAL AND ELECTRICAL PROPERTIES OF DIAMOND THIN FILMS
M.Varga - M.Vojs - M. Marton - M. Veselý
5. ERROR ANALYSIS OF THE RESULTS OF MULTIPLICATION BY AND GATE
E. Raschman – R. Záluský – D. Ďuračková

6. THE USE OF THE 5DT DATA GLOVE FOR DACTYL ALPHABET RECOGNITION
R. Záluský - E. Raschman - D. Ďuračková
7. DETECTION OF T-WAVE ALTERNANS IN ECG SIGNAL
A. Sultan – O. Ondráček
8. SYNCHRONOUS RECTIFIER IN DC/DC CONVERTERS
P. Šaštinský – M. Jendruch

Sekcia III. Fyzika, Jadrová fyzika, Materiály a technológie

J. Sitek P. Bokes, M. Ružinský

1. ELECTROMAGNETISM IN FINITE ELEMENT METHOD
R. Belák – G. Gach – T. Paprčka
2. SURFACE PLASMON POLARITONS ON INTERFACE BETWEEN TWO DIELECTRIC MEDIA
T. Váry
3. APPLICATION OF ENHANCED DYNAMIC WEDGES IN RADIOTHERAPY
A. Bajusová - G. Králik – M. Miglierini
4. MAPPING OF THE NEUTRON FLUX DENSITY DISTRIBUTION IN THE VVER-440 REACTOR PRESSURE VESSEL
M. Stacho – G. Farkas – V. Slugeň – S. Sojak
5. METHODS OF DELAYED NEUTRON FRACTION (β_{eff}) DETERMINATION IN TRAINING REACTOR VR-1
S. Michálek - S. Števo - G. Farkas - J. Haščík
6. METAL MELTING APPLICATION IN MATERIALS CLEARANCE PROCESS DURING THE NUCLEAR INSTALLATION DECOMMISSIONING
M. Zachar – V. Nečas
7. TESTING AND APPLICATION OF NEW PHENOMENOLOGICAL MATERIAL MODEL FOR FOAM MATERIALS
V. Goga
8. MEASUREMENT OF THE ENERGY ABSORPTION CAPABILITY POLYURETHANE FOAM
V. Goga

Sekcia IV. Elektroenergetika, Mechanika

L. Klug, I. Daruľa, R. Fric

1. POWER QUALITY IN PUBLIC LIGHTING NETWORKS
P. Janiga
2. POSSIBILITY OF CALCULATING THE ILLUMINANCE UNDER THE TUBULAR LIGHT
M. Krasňan
3. HYDROGEN AS A BY-PRODUCT OF BIOBUTANOL PRODUCTION
J. Kubica – M. Pípa
4. RENEWABLE ENERGY SOURCES AND THEIR IMPACT ON THE ELECTRIC POWER SYSTEM IN THE REPUBLIC OF MACEDONIA
D. Minovski – I. Šulc
5. LOCAL POWER DISTRIBUTION SYSTEM AND SLOVAK ENERGY LEGISLATION
M. Kubala – J. Šedivý – I. Šulc – M. Špok
6. IMPACT FROM TWO NEW WIND FARMS ON THE ELECTRIC POWER SYSTEM IN THE REPUBLIC OF MACEDONIA
I. Šulc – D. Minovski
7. A NONLINEAR THERMO-ELASTO-PLASTIC ANALYSIS OF BAR STRUCTURE
R. Ďuriš
8. DISCUSSION FOR OIL TEMPERATURE IMPACT ON GEAR WHEEL WEARING OUT MEASUREMENTS
R. Daruľa – S. Žiaran

Sekcia V. Aplikovaná informatika, Telekomunikácie

Komisia: M. Medvecký, F. Schindler, R. Róka

1. HUMAN FACE RECOGNITION CAPABILITIES – PSYCHOLOGICAL EXPERIMENT
J. Mazanec
2. TIME DELAYED NEURAL NETWORKS FOR VIDEO PREDICTION
F. Pilka – M. Oravec

3. CLASSIFIED TEXTURE IMAGE RESTORATION TECHNIQUES
S. Ondrušová– J. Polec – Ž. Floreková
4. TEXTURE SEGMENTATION USING GABOR FILTERS
M. Osadský
5. ADAPTIVE ALGORITHM FOR SWITCHING ARQ/HARQ SCHEMES
J. Poctavek – P. Fidler – K. Kotuliaková – J. Polec
6. OVERVIEW OF FOUNTAIN CODES
A. Yassine
7. PRIORITY BASED MEDIUM CONTROL IN CSMA NETWORKS
M. Bachratý
8. METHOD FOR UNEQUAL ERROR CONTROL OF TELEMETRIC DATA
T. Hirner

Ocenené prezentácie:

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V Bratislave 26.5.2008

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