

EEICT 2009

Obsah

Předmluva

Magisterské projekty

Elektronika a komunikace

Beneš, J.

Altitude Meter For RC Models

Beran, V.

Near Field of The Dipole Antennas

Bohutínský, J.

Control and Signalling Unit for Sport Match

Gotthans, T

GPS Logger - Hiking Computer

Harant, J.

Flight Statements Electronic Sensor

Jůn, L.

Development Board With 32-bit ARM-Based Processor

Kejík, Z.

Models of EMC Filters

Kratochvíl, P.

Precise Frequency Generator - DDS

Marcoň, P.

LCD Graphical Module with Touchscreen

Mikulášek, T.

Dual-Band Antenna for Global Navigation Satellite System

Povalač, A.

Direct Digital Synthesis with AD9951

Snopek, P.

Precise Function Generator

Ševčík, B.

Universal Interface for Control of Digital Potentiometers in Analog Systems

Šnajdr, V.

Experimental Meteostation

Šrámek, P.

System for Increasing Dynamics of the Signal Radiated by Magnetic Loop Antenna

Zpracování signálů a obrazu

Bednarz, R.

Picture Quality Analysis in DVB-T Digital Television Systems

Beneš, R.	Road Signs Detection and Classification
Blaho, J.	Automatic Data Acquisition for Training of a Hand Detector
Číp, P.	Traffic Signs Detection and Recognition
Ponzer, M.	Face Detection and Recognition
Pražák, O.	Person Identification Based on Lokomotion
Sucharda, J.	Morphology of Stone Points
Šrámek, P.	Implementation of Software Defined Radio Into FPGA
Váňa, J.	Face Recognition by Thermal Image
Vaněk, J.	Music Genre Recognition

Kybernetika a automatizace

Babinec, T.	3D Reconstruction Software Engine
Dobias, M.	Robust Controllers
Dokoupil, J.	Adaptive Controllers with Principles of Artificial Intelligence and Its Comparison with Classical Identification Methods
Kočí, M.	Laser Proximity Scanner
Veselý, I.	Identification of Synchronous Motor's Parameters
Vysloužil, O.	Evaluation of Complex Situations from Airplane's Avionics
Zlý, M.	Automatic Range Switch for Fluke 792A

Silnoproudá elektrotechnika a elektroenergetika

Bucholcer, O.	Program for the Calculation of Short-circuit Conditions in a Power System
Hvězda, J.	The Analyse of Transient Actions of Synchronous Generators
Klečka, J.	Wind Power Station With Savonius Rotor For Production Of Electric Power

Ondroušek, L.

Connecting of the Photovoltaic Power Sources to the Distribution Grid

Ptáček, M.

Optimization of the Electricity Supply System Restoration during a Major Accident at the Dukovany Nuclear Power Station (EDU)

Tomášek, P.

Safe Uninterruptible Power Supply of Power Plant Internal Consumption

Teoretická elektrotechnika, fyzika a matematika

Hruboš, Z.

Universal Voltage-Mode Third-Order Oscillator

Mikláš, J.

Measurement of Biological Samples Aging by Light Polarisation State Changes ...

Moravec, P.

Toolbox for the Cooperation of Matlab and External Simulation Programs

Shromáždil, P.

Electronic Noise Temperature Dependence of Piezoceramic Sensors

Šik, O.

Noise Characteristics Analysis Of Radiation Detectors

Mikroelektronika a technologie

Čech, O.

Impact of Magnesium Additive on Alpha-Nickel Hydroxide Stability

Feber, V.

Impedance Spectroscopy of Electrochemical Microsensors

Frantík, O.

Rapid Thermal Annealing of Silicon Wafers

Chroboček, M.

Creation of Case Studies for Statistical Data Analysis

Kamenická, Z.

Measurement Uncertainty in Diagnostics of Insulating Materials

Kledrowetz, V.

The Influence of MDAC Resolution on Basic Blocks of Pipelined AD Converter ...

Košíková L.

Mathematical Transformation of Resorption Currents from Time to Frequency Domain

Musílek, V.

Aprotic Electrolytes for Supercapacitors

Sedláček, M.

Dielectric Nanocomposite Material

Smetana, M.

Universal Test SW for Fire Panel Tester

Široký, D.	Remote Operated Probe for Deep-water Cave Exploration
Šulc, J.	Design of Electrochemical Sensors Array
Vítek, L.	Universal Fire Panel Tester

Informační systémy

Dolíhal, L.	Syntax analysis based on several methods
Genčúr, M.	A Framework for Dynamic Updating of Java-Based Applications
Křoustek, J.	Code Analysis and Transformation To a High-Level Language
Mináč, J.	GPS Navigation System for Cement Technology
Řezáč, J.	Software development processes improvement
Solár, P.	Syntax-directed Translation Based on Deep Pushdown Automata
Šebek, M.	Data Preprocessing for Data Mining System
Tomek, J.	Processor of TSQL2 on Relational Database System
Verner, J.	Software Development Processes Metrics

Grafika a multimédia

Bařina, D.	Still Image Compression Using Wavelets and SPIHT Algorithm
Kajan, R.	MoonGate: Multipurpose RTS Engine for Windows and Xbox 360
Šolony, M.	Camera-Projector System Automatic Calibration
Zelený, J.	Rivers and Lakes in Artificial Landscape

Počítačové systémy

Kajan, M.	Optimization of Crossproduct-Based Classification Algorithms
Korček, P.	PCI Express Bridge

Intelligentní systémy

Filák, J.

Evolutionary Optimization of Tour Timetables

Horáček, J.

Platform for mobile agents in wireless sensor networks

Martinský, O.

Simulation and Optimization of Automated Trading Strategies

Marvan, A.

Robot for Minisumo

Mézl, M.

Bayesian Methods for Data Mining

Skydánek, L.

Tool for Modelling and Simulation of Technological Processes

Valenta, V.

Advanced Elliptic Partial Differential Equations Solution

Vyvíal, P.

Acceleration of Healing Assurance of Concurrent Java Programs by Library Preprocessing