

EEICT 2010

Obsah

Předmluva

Bakalářské projekty

Elektronika a komunikace

Bačík, M.

Parking Radar

Barcák, P.

Laboratory Module of the Class D Amplifier with PWM Modulation Used for Audio

Kolář, J.

Radio-Frequency Mixer

Krmela, T.

Class D Audio Power Amplifier With Pre-amplifier and Input Selector

Kubáň, M.

Audio Power Amplifier with Audio Processor and FFT Analysis

Lásko, L.

Principles of Transmission Optical Beam Through the Optical Fiber

Lehocký, J.

Matched Filter

Mego, R.

Development of PC Oscilloscope

Staněk, M.

Adjustable Source Fedded and Controlled by USB Bus

Svadbík, P.

Simulation and Implementation of the Audio Power Amplifier - Class A

Šafer, R.

Design of the Loudspeaker for Home Listening

Tiller, J.

Digital Audio Amplifier

Zatloukal, P.

Tunning of Antenna Rotator by Microprocessor Atmel

Zpracování signálů, obrazu a dat

Bohatcová, Z.

ECG Generator in Labview

Gajdoš, M.

Monitoring of Driver's Movements by Electrical Activity of Brain

Hladík, R.

Measurement of Conifers Needles Surface by MR Tomography

Hutová, E.	Recognition and Comparing Fingerprints
Kaluža, M.	Gender Recognition from Face Images
Kaňka, J.	Texture Analysis of Oftalmologic Images
Klicnar, L.	Shot Boundary Detection
Klupal, O.	Application for Mobile Phone Which Will Process GPS Data (Symbian)
Kuder, Z.	Analysis of Human Tremor Using High Speed Camera
Machátý, J.	Program for Measuring Response Time to Visual and Auditory Complaint
Nedvěd, J.	Fractals in Images of DNA Sequence Data
Skácel, D.	Application for Mobile Phone which Will Process GPS Data

Kybernetika a automatizace

Bažant, L.	Educational Board for 8051
Franek, L.	Model of Electric Furnance for Heat-Resistant Material Processing
Hůlka, J.	Autonomous Robot Controlled by Bluetooth
Izrael, P.	Map Making Using Particle Filters
Psota, M.	Camera Based Object Tracking
Sárközy, G.	Hardware and Software for Mobile Robots
Šťastný, L.	Powering and Monitoring System of an Internet Node
Vítová, H.	Controller of the Da Vinci Robotic Arm Instrument using LabVIEW
Wojnar, P.	Wireless Data-exchange for Heat Exchanger

Silnoprúdová elektrotechnika a elektroenergetika

Foltýn, P.	Design of Small Wind Turbine System with Savonius Rotor
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Hetflajš, M.

Influence of Mechanical Loads on Induction Machine Electromagnetic Field Distribution

Popek, J.

Current Transformers and Current Sensors Confrontation

Stodůlka, I.

Testing of Multifunction Terminal REF542plus

Vašková, J.

Project of Small Hydroelectric Power Station

Mikroelektronika a technologie**Kadaňka, P.**

Low Voltage Low Power Current Conveyor CCII

Otáhal, A.

Optimization of Soldering Process on IR-400

Strejček, J.

Conductive Net Designing for Thick Film Circuits

Střípek, M.

Monitoring of the Photovoltaic Power Plant

Informační systémy**Hatina, P.**

Context Driven Lexical Analyzer

Hodaň, T.

Web Portal for Processing GPS Tracks

Pehal, P.

Compiler of Equation in Energetic Industry

Pintér, D.

SQL Injection Vulnerability Locator for Kentico CMS

Stríž, R.

Implementation of Genetic Algorithm for Data Mining System

Grafika a multimédia**Beťko, P.**

Object Tracking in Video

Němec, J.

Lossless Image Compression

Schery, M.

Moving Object Detection in Video Using CUDA

Utěkal, J.

Inovative User Interface for Smartphone

Vagner, O.	Automatic Creation of Lightsabre Effect
Weiser, M.	New Way of Interactive Pictures Sorting

Počítačové systémy

Křesal, T.	Guard System for Household with Usage of GSM Communication
Mayer, J.	GSM Module for Wireless Sensor Networks
Ocelík, T.	Wireless Network Analyzer - Practical Application
Vavruša, M.	USB over TCP/IP

Inteligentní systémy

Baláž, M.	Evolutionary Design of Moving Objects
ČeCHO, J	Bringing Expert System into Ruby
Faltičko, M.	Automated Design of a Competition Aircraft Model
Šimara, M.	Agent System for Searching on Real Estate Servers
Žilka, L.	Temporal Logic for Man

Středoškolské projekty

Elektronika a komunikace

Halász, D.	Guitar Tuner
Hlaváček, R.	Systém řízení robota pro sledování čáry
Langer, J.	Tesla Coil
Matýsek, M.	Coil Gun