

EEICT 2012

Obsah

Předmluva

Magisterské projekty

Elektronika a komunikace

Barcík, P.

The Distribution of Relative Variance of Optical Intensity in Laser Beam Profile . . .

Faltičko, M.

Professional RC Transmitter

Filip, T.

Design of High-Speed Optical Networks

Kufa, M.

Planar Fractal Filter on Defected Ground Substrate

Mego, R.

RFID Access Terminal

Možný, K.

Digital Audio Board

Rumíšek, T.

Light System Control via Powerline Communications

Satora, O.

LED Light System with Adjustable Spectral Radiation

Sedláček, P.

Substrate Integrated Waveguide Slot Antenna Array

Svadbík, P.

Digital Audio Amplifier with Universal Inputs

Šindler, P.

Retrodirective Antenna Array

Šrajbr, M.

Dual-Band Helix Antenna for WiFi Band

Zpracování signálů, obrazu a dat

Kabrda, M.

Orthopantomogram Processing in Studying Cystic Disorders

Kaňka, J.

Controlling and Evaluation of Laser Micromanipulation Experiments

Klicnar, L.

Robust Detection of Moving Objects in Video

Kovačev, R.

Phase Vocoder

Krmela, T.	Subjective Quality Assessment of Video Sequences with Different Methods
Labounek, R.	Analysis of Simultaneous EEG and fMRI Data
Mašek, J	Image Object Detection Using Haar-like Features
Mikeš, P.	Measurement of Diffusion Coefficient
Musil, M., Musil, P.	Hardware Detection of Scalable Objects Based on AdaBoost Classifier
Němec, J.	Lossless Video Compression
Němec, Z.	Deriche Edge Detector
Prymus, J.	Image Processing Library Wrapper for Lua
Slaviček, T.	Software for Patients and Brain Regions Selection Suitable for Analysis of Connectivity in fMRI

Kybernetika a automatizace

Buchta, L.	Performance, Robustness and Implementation of Controllers
Černín, J.	Human Detection in Commercial Applications
Franek, L.	Data Concentrator for Smart Grids
Herman, I.	State Estimation and Observability Analysis of AC Drives
Chlad, P.	Control System for Laboratory Distillation Column Model
Opravil, J.	Hybrid Hausdorff Distance in Practical Application
Rajnošek, M.	Design of Robust Current Controllers for PM Synchronous Motor
Slováček, A.	New Laboratory Workplace for Airflow Measurement
Španihel, P.	Security Module for Advertising Robot FEKT VUT Brno
Šťastný, L.	Ethernet Control System
Uhlíř, V.	Basic Quadrotor Concept

Vožda, O.	Control of a Wheelchair
Žáček, V.	Landmark Extraction Using Self-Organizing Map

Silnoproudá elektrotechnika a elektroenergetika

Cerman, M.	Economic Aspects of Use of Photovoltaic Energy
Vašíček, A.	Pure Resonant Mode Power Supply

Mikroelektronika a technologie

Chvíla, L.	Simulations of Fractal Capacitors
Ovsík, J.	Study of Electric Properties of Nanocomposites
Štekovič, M.	The Increase of Electrode Surface Electro-chemical Sensor by Wire Bonding Technology
Teska, T.	Transimpedance Operational Amplifier for Memristive Systems
Vaculík, S.	Electrochemical Impedance Spectroscopy on Lead-Acid Accumulators

Biomedicínské inženýrství a bioinformatika

Gajdoš, M.	Tool for Simulation of Connectivity in fMRI Data
Sedlář, K.	Protein Secondary Structure Prediction Based on Neural Network
Vítová, H.	Non-Invasive Blood Glucose Measuring

Informační systémy

David, L.	Datamining in MS SQL Using Incremental Algorithms
Hanák, F.	Code Generation Using Design Patterns
Hozza, T.	Static Analysis of Access Control Lists
Hřib, D.	Project Management Risks Visualization

Kliment, R.	Automatic Navigation on Private Websites
Korec, T.	Instruction and Cycle Accurate Debugger
Lang, J.	Multimedia Document Type Diff
Pohlídal, A.	Intelligent Mailbox
Polách, O.	Object Database Spatial Extension
Rybová, V.	Multicast Routing Modelling in OMNeT++
Stríž, R.	Mining of Periodic Patterns
Tisoň, Z.	Sequential Pattern Mining
Tomaga, J.	Censorship in the Internet
Utěkal, J.	Multiuser Mapping Application for Mobile Device
Zajíc, J.	Compiler from C# Language to NVidia Language
Žouželka, M.	Fault Injection for Web Services

Grafika a multimédia

Appl, M.	Intuitive Drawing on the Android Platform
Drastil, P.	Simulation and Visualization of a Water Flow
Floryán, K.	Tool for Fireworks Design and Simulation
Hejl, Z.	3D Scene Reconstruction from Images
Horváth, Z.	Real-time Particle Simulation of Fluids
Kubík, T.	Distributed System for Usability Testing
Kučiš, M.	Simulation of Camera Features
Ligmajer, J.	Hierarchical Techniques in Lighting Computation
Mynář, P.	Webcam as a Pointing Device

Tomek, P.	Approximation of Terrain Data Utilizing Multivariate Splines
Vagner, O.	Removing of Unwanted Objects in the Videosequences

Počítačové systémy

Dvořák, M.	Reliability Measurement of the Pattern Matching
Jirásek, J.	Computer Identification Using Time Information
Musil, M., Musil, P.	PCI Express Interface for Signal and Video Processing
Smejkal, J.	Dynamic State of OMNeT++ Model via SNMP
Šebeň, P.	Identifying Skype Traffic Using NetFlow Data
Šimon, P.	Hardware Emulator of Small Home Computer ZX Spectrum
Votava, M.	Development of Platform for Three-Rotor Helicopter

Intelligentní systémy

Antal, L.	802.1X WLAN Network Security
Benda, O.	Genetic Programming Based Haar-Like Feature Classifier Design
Bláha, L.	Analysis of Automated Generation of Signatures Using Honeypots
Homoliak, I.	Increasing Classification Accuracy in LibSVM Using String Kernel Functions
Kalmár, R.	Compiler of Agent High Level Language
Klupal, O., Šimon, P.	Plotter Merkur Alfi Controlled by FITkit Platform
Korec, T.	Comparison of Fingerprint Quality Estimation Algorithms
Křen, M.	Effective Production Planning and Scheduling
Marek, J.	Universal Unpacker of Executable Files
Molák, J.	Basestation for WSageNt Agent Platform with Using GSM Module

Pazúriková, J.

Adaptive Model for Simulation of Atmospheric Pollution

Vician, T.

Experiment with Swarm Inteligens in Robotic Simulator Vortex

Žilka, L.

Exploiting Publication References for Keyword Relatedness Assessment with Ex-
plicit Semantic Analysis