

PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review) Vol 2012, No. 5b

Contents

01	Yuhui HUANG, Dong LIU, Weiwei XU, Wenpeng YU - Distribution Networks State Estimation Based on Topological Contraction and Quality Tag	1
02	Xuesong YAN, Qinghua WU, Hanmin LIU - Orthogonal Evolutionary Algorithm and its Application in Circuit Design	7
03	Lie XU, Yongdong LI, Zedong ZHENG, Hongwei MA, Kui WANG - A Multi-Level Inverter for Ultra High Speed PM Motor Control Application	11
04	Fei FANG, Yuming MAO, Supeng LENG - An adaptive Slotted ALOHA Algorithm	17
05	Desheng LI, Qian HE - A version of cooperative multi-swarm PSO using electoral mechanism to solve hybrid flow shop scheduling problem	22
06	Xiai YAN, Jinmin YANG, Qiang FAN - An Improved Two-phase Commit Protocol Adapted to the Distributed Real-time Transactions	27
07	Tai LI, Zhi-Cheng JI - Compensation Control Studies for Variable-Speed Wind Power Systems Based on Neural Network	31
08	Lei DONG, Shuang GAO, Xiaozhong LIAO, Yang GAO - Short-Term Wind Power Forecasting with Combined Prediction Based on Chaotic Analysis	35
09	Ying GAO, Baifen LIU - Active-Disturbance Rejection Control for a Direct-Drive Valve based on a linear motor	40
10	Jiabin ZHOU, Ju TANG, Xiaoxing ZHANG, Jiagui TAO - Pattern recognition for partial discharge in GIS based on pulse coupled neural networks and wavelet packet decomposition	44
11	Wenhong LI, Xiuhua ZHANG, Xueguang QI, Shan ZHANG - Online fractal identification of cable's ground fault traveling wave in mine	48
12	Haisen ZHAO, Yingli LUO, H. Wang REN, Baldassari PETER - A Complete Model for Iron Losses Prediction in Electric Machines Including Material Measurement, Data Fitting, FE Computation and Experimental Validation	52
13	Ziqiang WANG, Xia SUN, Xu QIAN - Efficient Kernel Discriminative Geometry Preserving Projection for Document Classification	56
14	Minxiu YAN, Liping FAN - Discrete Sliding Mode Control for DC-DC Converters with Uncertainties	60
15	Shoucheng DING, Jianhai LI, Limei XIAO, Rui HUANG, Shizhou YANG - Intelligent Digital Multi-purpose Vehicle Instrument	64
16	Yongzhong LI - Review of the Cross-strait Information Industry Cooperation Research	68
17	Liping FAN, Yi LIU - Fuzzy Logic Based Constant Power Control of a Proton Exchange Membrane Fuel Cell	72
18	Haihong XIAO, Kuangzhou Lv - The Design of the Signal Generator Circuit for Single-Phase Industrial Frequency Power Based on XC2C64A	76
19	Lizhong XU, Huaiyong LI - Resonant Responses for an Electromechanical Integrated Harmonic Piezodrive System	79
20	Yanbo CHE, Jian CHEN - Research on Design and Control of Microgrid System	83
21	Yujiao LIU, Chuanwen JIANG, Jingshuang SHEN, Xiaobin ZHOU - Energy Management for Grid-connected Micro Grid with Renewable Energies and Dispatched Loads	87
22	Dongliang JIAO, Lianzhong LIU, Shilong MA - Research on a Fine-Grained Overriding Mechanism Based on Delegation	93
23	Yong LIAO, Zhen-nan FAN, Li HAN, Li-dan XIE - Analysis of the Loss and Heat on Damper Bars in Large Tubular Hydro-Generator base on the 3D Electromagnetic-Temperature field Calculation	97
24	Yi SUN, Jianmin DONG, Hongwei GUO, Liang WANG, Zhaohai RAN - Teaching Research on Cryptography in Computer Science and Technology Specialty	101
25	Hong JIANG, Xi CHEN, Bailin LIU - Multiple Support Vector-based approach to Breast tumor recognition	105
26	Xuesong ZHOU, Zhihao ZHOU, Youjie MA, Dongfang WU - Analysis of Excitation Current in DC-Biased Transformer by Wavelet Transform	108
27	Kaisheng ZHANG, Zhijian LI, Yongjian XU, Shuangshuang WANG - Discussion on digitalization of Paper Fiber	113
28	Qiang FAN, Mingjian ZHANG, Yue ZHANG - Key Escrow Scheme with the Cooperation Mechanism of Multiple Escrow Agents	116
29	Han WANG, Chenzhao YU, Jianwen ZHANG, Xu CAI - Control of Voltage Source Inverter with an LCL Filter without Voltage Sensors	119

PRZEGLĄD ELEKTROTECHNICZNY (Electrical Review) Vol 2012, No 5b

Contents

30	Mehmet AKAR, Mahmut HEKIM, Ismail TEMIZ, Zafer DOGAN - The Speed and Torque Control of Direct Current Servo Motors by using Cascade Fuzzy PI Controller	123
31	Amer BELLIL, Abdelkader MEROUFEL - VSI PWM inverter feed induction machine using Volts per Hertz Control Scheme	128
32	Róbert BRÉDA - Experimental measurement of parameters of the spatial scanner Hokuyo URG - 04LX	132
33	Ali Darvish FALEHI - Simultaneous Coordinated Design of TCSC-Based Damping Controller and AVR Based on PSO Technique	136
34	Qian GAO, Guangxia LI - A Novel Traffic Prediction Scheme for Broadband Satellite Communications System	141
35	Saeed HASANZADEH, Sara RANJBAR, Amir Hosein HAJI SEYED BOROUJERDI - A Proposed Structure for Enhancing the Electric System Availability in an Electric Vehicle	146
36	Kristijan KUK, Petar SPALEVIĆ, Zoran TRAJČEVSKI - Use Game Based Interactive Multimedia Modules to Learning Basic Concepts on Courses for Computing Science	150
37	Vladimir MATIĆ, Aleksandar LEBL, Dragan MITIĆ, Miroslav DUKIĆ - Estimation of Post Dialling Delay in Telephone Networks	154
38	Yu LING, Guoxiang WU, Xu CAI - Comparison of wind turbine efficiency in maximum power extraction of wind turbines with doubly fed induction generator	157
39	Radek MARTINEK, Jan ŽÍDEK - A System for Improving the Diagnostic Quality of Fetal Electrocardiogram	164
40	Mimoun YOUNES, Mohamed MAAMAR - Improvement of the ACO meta-heuristic by using the method Artificial Bees Colony (ABC)	174
41	Mohammad H. MORADI, Mostafa ASADI, HamidReza FARIDI - Demand Side Management Program for Residences in Iran	179
42	Stepan OZANA, Martin PIES - Modeling the flow of compressible media in a vessel by means of Simulin S-functions	183
43	Renato RIZZO, Luigi PIEGARI, Pietro TRICOLI - A Comparison between Line-Start Synchronous Machines and Induction Machines in Distributed Generation	187
44	Andrzej WAINDOK - A Method for Calculation of the Inrush Current in Single Phase Transformer including the Residual Flux	194
45	Ji Shengqiang, Luo Yongfen, Ji Haiying, Cao Rui, Liu Haicang, Li Yanming - Application of Time Series Used on Recognition of Partial Discharge in Oil-Paper Insulation	202
46	Bijan RAHMANI, Mohammad Tavakoli BINA - Advanced Universal Power Quality Conditioning Systems in Three-Phase Four-Wire supply networks Under Non-Ideal Waveforms	206
47	Yijie WANG, Dianguo XU - A Novel Single-stage AC/DC Converter with ZVS Characteristic	211
48	Ruijin LIAO, Ke WANG, Ling LIU, Tianchun ZHOU, Quan ZHOU - Investigation on Chaotic Characteristic of PD Magnitude Series during Propagation of Electrical tree in XLPE Power Cables	213
49	Aca MICIĆ, Predrag LEKIĆ, Petar SPALEVIĆ, Vera PETROVIĆ - Degenerate Chebyshev Approximation of the Recursive Digital Filter Group Delay Response	218
50	Patrik MORAVEK, Dan KOMOSNY, Milan SIMEK, Jakub MULLER - Multilateration and Flip Ambiguity Mitigation in Ad-hoc Networks	222