PRZEGLĄD ELEKTROTECHNICZNY Vol 2022, No 4

Contents

01	Ahmed Bouhouta, Samir Moulahoum, Nadir Kabache - Harmonic Mitigation in Utility Grid with Highly Unbalanced Non-	1
	linear Load Using Intelligent Controller: an Experimental Study	
02	Bukurije HOXHA, Risto V.FILKOSKI - Fluid interaction in a complex terrain wind farm	8
03	Rachid BELAIDI, Moussa BAKDI - Control and modelling of multi-machine power system stabilizer with FACTS	12
04	. Bazil WILFRED, Selvarathi M - Computation of Steady-State Probabilities of the states of the SMP model in Beacon	16
0.5	Message Dissemination	0.4
05	Yiyin KLISTAFANI, A. M. Shiddiq YUNUS, Muhammad ANSHAR, Sri SUWASTI ¹ - Assessment of Flange Diffuser Structures	21
06	to Improve the Power Generation of a Diffuser Augmented Wind Turbine	27
06	Nurul Afiqah MOHD FAZZIL, Ahmad Asrul IBRAHIM, Hussain SHAREEF, Mohd Asyraf ZULKIFLEY, Muhammad Akmal	27
	REMLI - Non-intrusive load monitoring for appliance status determination using feed-forward neural network	
07	P.S. Divya, G. Manoj, Catherine Grace John, M. Lydia - Mathematical modeling of real time wind power density using the	33
00	transformation technique	20
80	Benin Pratap C, A Immanuel Selvakumar, S Paul Sathiyan, Shine Let G - Minimization of Torque Ripple in Induction Motor	36
09	Drive by Optimal Harmonic Elimination Mohd Hafiz Jali, Nur Nadira Malek Faisal, Hazli Rafis Abdul Rahim, Md. Ashadi Md Johari, Haziezol Helmi Mohd Yusof,	40
03	Aminah Ahmad, Huda Adnan Zain, Sulaiman Wadi Harun - Effect of HEC/PVDF coating on glass substrate for	40
	formaldehyde concentration sensin	
10	Nawaphol THEPNARIN, Thanat NONTHAPUTHA, Wasana BOONSONG, Piya PRASONGJAN - Forecasting the Learning	44
. •	Outcomes of the Learning Management Process According to the Study Plan with Artificial Intelligence	
11	Omokhafe James TOLA, Emeka Simon OBE, Chinedu Titus OBE, Linus Uchechukwu ANIH - Finite Element Analysis of	47
	Dual Stator Winding Line Start Permanent Magnet Synchronous Motor	
12	Sherkhon SULTOŇOV, Murodbek SAFARAĽIEV, Śergey KOKIN, Stepan DMITRIEV, Inga ZICMANE, Shokhin	53
	DZHURAEV - Specifics of hydropower plant management in isolated power systems	
13	Jakub KRÁL - Measurement device for light pipe evaluation	58
14	D PRASAD, GADI VENKATA SIVA KRISHNA RAO - A novel sensorless controller to EV application for switched reluctance	62
	motor by the sliding mode controller	
15	Abed BOUADI, Houcine NAIM, Mohamed DELLA KRACHAI, Radouane FARES, Guelta Bouchiba - Modeling and	67
40	Simulation of a Novel Neural PLL controller for Circuit of Series Resonant Inverter in High Frequency Induction Heating	70
16	Mohamad Noriszakiy HISAM, Hazli Rafis Abdul RAHIM, Hanim Abdul RAZAK, Siti Nurhidayah AZMI, Siti Halma JOHARI, Mohd Hafiz JALI, Siti Amaniah Mohd CHACHULI, Siddharth Thokchome, Ahmad Razif Muhammd, Sulaiman	72
	Wadi HARUN - Tapered plastic optical fiber loop coated with ZnO nanorods using multiple channels for relative humidity	
	sensing	
17	Hanim ABDUL RAZAK, Ahmad Mubasyir ABDUL GHAFAR, Hazura HAROON, Siti Khadijah IDRIS, Anis Suhaila MOHD	77
17	ZAIN, Fauziyah SALEHUDDIN, Hazli Rafis ABDUL RAHIM - Effect of Various Overlap Distance in Waist Enlarged Tapers	' '
	in Mach Zehnder Interferometer Fiber Optic Sensor for Liquid Temperature Monitoring	
18	Cekmas Cekdin*, Rika Noveryianti, Rizky Wahyu Agustian, Ilham Efendi, Theo Septiansyah - A clutch with dual	81
	accumulators as a reserve power source	
19	Fatima BELGACEM, Mohamed MOSTEFAI, Yahia MILOUD, Aicha BELGACEM - A Comparative Technical-Economic	85
	Study of two Water Pumping Systems for an Isolated Community in Algeria	
20	Vasyl MALYAR, Orest HAMOLA, Volodymyr MADAY, Ivanna VASYLCHYSHYN - Mathematical modeling of processes and	90
	characteristics of wound-rotor induction motor	
21	Ali Hayder Abdul Kareem, Bashar M. Ahmed, Laith A. Abdul-Rahaim - Design and Implementation of Humidity and	94
00	Temperature Automation and Monitoring for Public Building Comfortable Climate Based on Cloud Platform	404
22	Adirek JANTAKUN, Angkana CHAROENMEE, Suphaphorn PANIKHOM, Khunpan PATIMAPRAKORN, Atirarj	101
	SUKSAWAD - Low-output-impedance First-order All-pass Filter Based on Single Active Element and Its Application in Multiphase Sinusoidal Oscillator	
23	Mahmood T. Alkhayyat ¹ , Mohammed Y. Suliman - Adaptive Neuro-Fuzzy Controller Based STATCOM for Reactive Power	107
20	Compensator in Distribution Grid	107
24	Piotr A. WOŹNIAK - Dual system of energy storage in a hybrid vehicle: optimization of energy management system and	
	analysis of the impact of the energy storage type on the vehicle performance	113
25	Joanna KOZIEŁ, Michał MAJKA - Comparative analysis of the results of electrical measurements taken during selected	119
	cosmetic and physical therapy treatments	
26	Łukasz Maciura, Dariusz Wójcik, Wojciech Rosa, Tomasz Rymarczyk, Michał Maj - UNet model in image reconstruction	123
	for electrical impedance tomography	
27	Edward KOZŁOWSKI, Krzysztof KRÓL, Tomasz RYMARCZYK - Application of PCA with logistic regression in embankment	127
	drainage	
28	Szymon Wójcik, Mirosław Gierczak - System for characterization of thermoelectric microgenerators over a wide temperature	131
	range	
29	Marcin SZOTT, Łukasz PILIMON, Szymon WERMIŃSKI - Fault-tolerant control in the battery peak power reduction system of	136
20	a traction substation	1 40
30	Łukasz PILIMON, Marcin JARNUT, Marcin SZOTT ¹ - Regenerative testing system for electric vehicles charging station Jacek Maciej STANKIEWICZ - Influence of the coil winding direction on the efficiency of Wireless Power Transfer Systems	142
31 32	Barbara FLORKOWSKA, Marek FLORKOWSKI - The characteristics of the partial discharge tests introduced in the	148 154
52	subsequent stages of the production of power cables with insulation made of impregnated paper and polyethylene	134
33	Krzysztof PIEŃKOWSKI, Krystian CHRZAN ² - Leo Graetz bridge rectifier or Charles Pollak bridge rectifier?	163