

# **TENCON 2015 – 2015 IEEE Region 10 Conference**

**Macao  
1-4 November 2015**

**Pages 1-726**



**IEEE Catalog Number: CFP15TEN-POD  
ISBN: 978-1-4799-8642-2**

**Copyright © 2015 by the Institute of Electrical and Electronic Engineers, Inc  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\*This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP15TEN-POD
ISBN (Print-On-Demand):	978-1-4799-8642-2
ISSN:	2159-3442

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# TABLE OF CONTENTS

<b>GROUND RESISTANCE CALCULATION OF A POWER STATION IN BRUNEI DARUSSALAM</b> .....	1
<i>Salam, M.A. ; Ang, S.P. ; Norfauzi, M. ; Fushuan Wen ; Liaw, C. ; Rahman, Q.M. ; Hasan, S. ; Voon, W.</i>	
<b>THREE DESCRIPTION LATTICE VECTOR QUANTIZATION FOR EFFICIENT DATA TRANSMISSION</b> .....	6
<i>Hui Ting Teo ; Salleh, M.F.M.</i>	
<b>SPINNING RESERVE OPTIMIZATION USING RELIABILITY CONSTRAINED UNIT COMMITMENT</b> .....	12
<i>Wang, M.Q. ; Yang, P.P. ; Zhang, Q. ; Wang, Y.</i>	
<b>USING MAGNETIC COUPLING TO IMPROVE THE BANDWIDTH AND PHASE MARGIN OF BOOST CONVERTERS</b> .....	17
<i>Yu Gu ; Donglai Zhang</i>	
<b>IMPLEMENTATION OF A NEW ZVS DC/DC CONVERTER TO EXTEND ZVS RANGE</b> .....	22
<i>Bor-Ren Lin ; Kuan-Hao Chen</i>	
<b>WIDEBAND MOBILE MIMO ANTENNA FOR THE METAL COVER PHONE</b> .....	28
<i>Taeho Son ; Youngmin Jo</i>	
<b>FREESTANDING GRAPHENE EDGE PROBES FOR SCANNING TUNNELING MICROSCOPE</b> .....	31
<i>Tsai, J.T.H. ; Chu, K.K.W.</i>	
<b>NOVEL RELIABILITY EVALUATION METHOD FOR NAND FLASH MEMORY</b> .....	34
<i>Jiang Xiao-bo ; Tan Xue-qing ; Huang Wei-pei</i>	
<b>RECOVERING MISSING DATA IN THREE DIMENSIONAL GAIT MEASUREMENT</b> .....	38
<i>Kitagawa, M. ; Okadome, T.</i>	
<b>LIGHTWEIGHT SMART GLASS SYSTEM WITH AUDIO AID FOR VISUALLY IMPAIRED PEOPLE</b> .....	44
<i>Feng Lan ; Guangtao Zhai ; Wei Lin</i>	
<b>MOBILE CROWDSENSING GAME IN VEHICULAR NETWORKS</b> .....	48
<i>Liang Xiao ; Tianhua Chen ; Caixia Xie ; Jinliang Liu</i>	
<b>PARALLEL DESIGN FOR ULTRASOUND SYNTHETIC APERTURE IMAGING FPGA</b> .....	54
<i>Hui Juan Huang ; Yu Yu Yuan ; Jiu Jiang Wang ; Wang Meng ; Sio Hang Pun ; Peng Un Mak ; Vai, M.I.</i>	
<b>FAULT DIAGNOSIS FOR POWER SYSTEM BASED ON A SPECIAL BAYESIAN NETWORK</b> .....	58
<i>Wang Tao ; Zhu Yi ; Gao Zhanjun</i>	
<b>FACIAL COLOR ANALYSIS OF OVERWEIGHT-OBESITY AND ITS RELATIONSHIP TO HEALTHY AND DIABETES MELLITUS USING STATISTICAL PATTERN RECOGNITION</b> .....	64
<i>Ting Shu ; Zhang, B.</i>	
<b>ANALYSIS, DESIGN AND IMPLEMENTATION OF A WIDE ZVS FULL-BRIDGE CONVERTER</b> .....	68
<i>Bor-Ren Lin ; Yan-Kang Du</i>	
<b>A REVIEW OF OBJECT SEGMENTATION QUALITY SUBJECTIVE ASSESSMENT METHODS</b> .....	74
<i>Ran Shi ; King Ngi Ngan ; Yichi Zhang</i>	
<b>AN EFFICIENT DIMINISHED-1 MODULO 2N + 1 MULTIPLIER USING SIGNED-DIGIT NUMBER REPRESENTATION</b> .....	76
<i>Tanaka, Y. ; Shugang Wei</i>	
<b>MU-MIMO PERFORMANCE WITH A CIRCULAR BASE STATION ARRAY AND SEMI-ORTHOGONAL USER SELECTION</b> .....	82
<i>Cantoni, A. ; Bin Li ; Hai Huyen Dam</i>	
<b>A TRAJECTORY TRACKING LQR CONTROLLER FOR A QUADROTOR: DESIGN AND EXPERIMENTAL EVALUATION</b> .....	88
<i>Xie Heng ; Cabecinhas, D. ; Cunha, R. ; Silvestre, C. ; Xu Qingsong</i>	
<b>OPTICAL WIRELESS COMMUNICATIONS USING VISIBLE LED</b> .....	95
<i>Chi-Wai Chow ; Chien-Hung Yeh ; Yang Liu</i>	
<b>IMPLEMENTATION OF ADVANCED T-ROOM</b> .....	97
<i>Wada, O. ; Ueno, S. ; Katagiri, S. ; Ohsaki, M.</i>	
<b>IMPROVED MIXED <math>H_2/H_\infty</math> ROBUST FAULT-TOLERANT CONTROL AGAINST SENSOR FAILURES</b> .....	103
<i>Hao Feng ; Tang Shuo ; Ye Sijun ; Chang Min</i>	
<b>A MINIATURE HOME-BASED SLEEP MONITORING DEVICE</b> .....	109
<i>Silapachote, P. ; Srisuphab, A. ; Bhunnachet, T. ; Matrakool, N.</i>	

<b>A CAPACITY MONITORING SYSTEM WITH HV CURRENT SENSOR AND CALIBRATED CURRENT ESTIMATION APPROACH .....</b>	<b>114</b>
<i>Wen-Je Lu ; Sheng-Syong Wang ; Min-Yu Tseng ; Chua-Chin Wang</i>	
<b>INGAN-BASED MQE LEDS WITH TUNNEL-JUNCTION-CASCADED STRUCTURE .....</b>	<b>118</b>
<i>Shoou-Jinn Chang ; Wei-Heng Lin</i>	
<b>STEREO VISION-BASED OBSTACLE DETECTION USING FUSION METHOD OF ROAD SCENES .....</b>	<b>120</b>
<i>Dajun Ding ; Soon Kwon ; Jaehyeong Park ; Wooyoung Jung</i>	
<b>SYSTEM-LEVEL PERFORMANCE EVALUATION OF ULTRA-DENSE NETWORKS FOR 5G.....</b>	<b>122</b>
<i>Chen, Siyi ; Xiang Ji ; Xing, Chengwen ; Fei, Zesong ; Hualei Wang</i>	
<b>FAST AND ROBUST QUESTIONNAIRE RECOGNITION ON MOBILE DEVICE .....</b>	<b>126</b>
<i>Wei Lin ; Guangtao Zhai ; Feng Lan</i>	
<b>OPTIMIZATION OF LOSS TANGENT AND CAPACITOR AREA OF MICRO VACUUM DIELECTRIC CAPACITORS.....</b>	<b>131</b>
<i>Wing-Shan Tam ; Chi-Wah Kok ; Shuk-Fun Lai ; Hei Wong</i>	
<b>SYSTEMS THINKING AS A STRATEGY DEVELOPMENT APPROACH .....</b>	<b>133</b>
<i>Pillutla, R.S. ; Mandaleeka, N.G.</i>	
<b>ROUTEFINDER: REAL-TIME OPTIMUM VEHICLE ROUTING USING MOBILE PHONE NETWORK.....</b>	<b>139</b>
<i>Ahmadullah, N. ; Islam, S. ; Ahmed, T.</i>	
<b>CAPACITOR CHARGING POWER SUPPLY BASED ON LCL-T RESONANT CONVERTER WITH CLAMP DIODES .....</b>	<b>146</b>
<i>Ting Liang ; Wei Li ; Chun-en Fang ; Meng Wang</i>	
<b>OPTIMIZED SEGMENTATION FOR MRI BRAIN IMAGES .....</b>	<b>151</b>
<i>Subashini, P. ; Jansi, S.</i>	
<b>FREQUENCY STABILITY ANALYSIS AND CONTROL FOR THERMAL-WIND GENERATION WITH HVDC ISLANDED SENDING.....</b>	<b>157</b>
<i>Yihui Zuo ; Minxiao Han ; Zheng Chao</i>	
<b>A MODIFIED FORECASTING ALGORITHM FOR WIND POWER BASED ON SVM.....</b>	<b>163</b>
<i>Wenwen Xiao ; Ying Sun ; Kejun Li ; Mi Xu ; Hao Li ; Yu Lin ; Liyuan Gao</i>	
<b>IMPACT OF SIGNAL DELAY ATTACK ON VOLTAGE CONTROL FOR ELECTRIFIED RAILWAYS .....</b>	<b>168</b>
<i>Hoang Hai Nguyen ; Rui Tan ; Yau, D.K.Y.</i>	
<b>A FAST CU CODING MODE DECISION ALGORITHM FOR H.265/HEVC .....</b>	<b>171</b>
<i>Luo Yong-lin ; Liang Fan ; Xie Li-wei</i>	
<b>BAND-NOTCHED UWB PLANAR MONOPOLE ANTENNA.....</b>	<b>175</b>
<i>Guiping Jin ; Dan Liu ; Houbi Liao</i>	
<b>A SYSTEM FOR REDUCING THIRD-HAND SMOKE .....</b>	<b>177</b>
<i>Purio, M.A.C. ; Acebuche, J.C. ; Barallas, J.B. ; Merjudio, K.L.C. ; Obico, P.N. ; Raguindin, E.Q.</i>	
<b>ASSESSMENT OF EXERCISE INDUCED FATIGUE THROUGH MOTION ANALYSIS .....</b>	<b>182</b>
<i>Ameli, S. ; Naghdy, F. ; Stirling, D. ; Naghdy, G. ; Aghmesheh, M.</i>	
<b>DISTRIBUTED TIME DIVISION MULTIPLE ACCESS PROTOCOL FOR MULTI-HOP WIRELESS SENSOR NETWORKS .....</b>	<b>186</b>
<i>Buranapanichkit, D. ; Andreopoulos, Y.</i>	
<b>LABVIEW-BASED MOTION ACTIVATED SECURITY CAMERA.....</b>	<b>190</b>
<i>Alano, F.I. ; Anzures, A.S. ; Ondevilla, J.G. ; Purio, M.A.C.</i>	
<b>PRIVACY-PRESERVING INFORMATION SHARING AND MANAGEMENT SCHEMA FOR COLLABORATIVE SOCIAL NETWORKS .....</b>	<b>195</b>
<i>Cheng Man Ma ; Yan Zhuang</i>	
<b>COST-EFFECTIVE LBIC SYSTEM FOR SOLAR CELL CHARACTERIZATION .....</b>	<b>200</b>
<i>Lim, J.C. ; Lorenzo, P.A.C. ; Queen B.Macabebe, E.</i>	
<b>INCREMENTAL DEPTH BUNCH BASED 3D FACE RECOGNITION FROM RANGE IMAGE .....</b>	<b>204</b>
<i>Ganguly, S. ; Bhattacharjee, D. ; Nasipuri, M.</i>	
<b>STREETWATCH: A MOBILE APPLICATION FOR STREET CRIME INCIDENT AVOIDANCE AND SAFETY SOLUTION.....</b>	<b>208</b>
<i>Corazon G.Fernando, M.</i>	
<b>EFFECTS OF SHADING ON CURRENT, VOLTAGE AND POWER OUTPUT OF TOTAL CROSS-TIED PHOTOVOLTAIC ARRAY CONFIGURATION .....</b>	<b>213</b>
<i>Montano, B.J.G. ; Rombaoa, D.J.F. ; Pena, R.A.S. ; Queen B.Macabebe, E.</i>	
<b>OPTIMAL SCHEDULING OF QOE-AWARE HTTP ADAPTIVE STREAMING .....</b>	<b>218</b>
<i>Ray-I Chang ; Yu-Chi Liu ; Jan-Ming Ho ; Yu-Hsien Chu ; Wei-Chun Chung ; Chi-Jen Wu</i>	

<b>AN IMPROVED AGGREGATED MODEL OF WIND FARM WITH FIXED-SPEED WIND TURBINES.....</b>	<b>222</b>
<i>Yang Yang ; Zhaowen Luan ; Ruiyan Gan ; Weidong Liu ; Zhen Qin ; Yi Tang</i>	
<b>THE INFLUENCE OF T-SHAPED STRUCTURE ON PARTIAL DISCHARGE RADIATED ELECTROMAGNETIC WAVE PROPAGATION IN GIS .....</b>	<b>227</b>
<i>Tianhui Li ; Mingzhe Rong ; Xiaohua Wang</i>	
<b>THE STUDY ON THE EFFECTS OF THE TRANSFORMER <math>\Delta</math> -SIDE UNBALANCED THIRD HARMONIC ON THE PARALLEL CAPACITOR BANK CAUSED BY THE SYMPATHETIC INRUSH CURRENT AND THE COUNTERMEASURES.....</b>	<b>231</b>
<i>Wang Ye ; Yuan Yubo ; Lu Yuping ; Kong Xiangping ; Qian Jiabin ; Li Hanlin</i>	
<b>DESIGN OF GUI-COMPONENT ENERGY PROFILER FOR ANDROID APPLICATIONS .....</b>	<b>241</b>
<i>Hatayama, K. ; Hisazumi, K. ; Yoshise, K. ; Ishida, S. ; Fukuda, A.</i>	
<b>VIDEO TAMPER DETECTION TECHNIQUES BASED ON DCT-SVD AND MULTI-LEVEL SVD.....</b>	<b>245</b>
<i>Dabhade, A.V. ; Bhople, Y.J. ; Chandrasekaran, K. ; Bhattacharya, S.</i>	
<b>BENDERS DECOMPOSITION ALGORITHM FOR REFERENCE NETWORK.....</b>	<b>251</b>
<i>Jie Zhang ; Xiangyang Cao ; Xin Tian ; Zhen Wang ; Mingqiang Wang ; Xueshan Han ; Shan Li</i>	
<b>REVIEW OF HIGH SPEED ELECTRICAL MACHINES IN GAS TURBINE ELECTRICAL POWER GENERATION .....</b>	<b>256</b>
<i>Ma Xiaohe ; Su Rong ; Tseng King Jet ; Wang Shuai ; Zhang Xiaolong ; Vaiyapuri, V. ; Chandana, G. ; Amit, G. ; Sivakumar, N.</i>	
<b>RESEARCH ON GRID-CONNECTED PHOTOVOLTAIC POWER GENERATION TECHNOLOGY BASED ON FREEDM SYSTEM.....</b>	<b>265</b>
<i>Hao Li ; Ying Sun ; Kejun Li ; Wenwen Xiao ; Mi Xu ; Liyuan Gao</i>	
<b>POWER PORTFOLIO OPTIMIZATION CONSIDERING INTER-REGIONAL POWER EXCHANGE AND BASE LOAD EXCHANGE.....</b>	<b>271</b>
<i>Jiajun Lv ; Zhaohong Bie ; Hachen, F. ; Bike Xue ; Yaxian Zheng ; Jian Geng</i>	
<b>MULTI-OBJECTIVE OPTIMAL SCHEDULING FOR HYDRO-THERMAL-WIND POWER SYSTEM.....</b>	<b>277</b>
<i>Han Zhonghui ; Cheng Tao ; Zhou Yifan ; Zhang Peng</i>	
<b>DAMPING IMPROVEMENT USING DYNAMIC INVERSION TECHNIQUE IN POWER SYSTEM.....</b>	<b>282</b>
<i>Rao, K.U. ; Tripathi, A. ; Venkatesha, L.</i>	
<b>USING NOISE STATISTICS FOR EFFECTIVE NOISE FILTERING .....</b>	<b>286</b>
<i>Kopparapu, S.K.</i>	
<b>APPLICATION OF MEMS BASED CAPACITIVE SENSOR FOR CONTINUOUS MONITORING OF GLUCOSE .....</b>	<b>290</b>
<i>Samyuktha, N. ; Maneesha, P. ; Sreelakshmi, B.R. ; Pattnaik, P.K. ; Narayan, K.</i>	
<b>SUPPORT VECTOR MACHINE BASED FAULT DIAGNOSIS USING TRIP AND CLOSE COIL CURRENT OF CIRCUIT BREAKERS .....</b>	<b>294</b>
<i>Hengzhen Li ; Yunfei Wang ; Wang, J.F. ; Tang, W.H. ; Ji, T.Y. ; Yi, L.</i>	
<b>A DOUBLE-SACRIFICIAL-LAYER UNCOOLED INFRARED MICROBOLOMETER IN A STANDARD CMOS PROCESS.....</b>	<b>299</b>
<i>Shen Ning ; Huang Zhengxing ; Tang ZhenAn</i>	
<b>POWER SYSTEM SECURITY ASSESSMENT USING RANKING BASED ON COMBINED MW-CHAOTIC PERFORMANCE INDEX .....</b>	<b>304</b>
<i>Nangrani, S.P. ; Bhat, S.S.</i>	
<b>A WIDE-AREA VAR-VOLTAGE CONTROL METHOD FOR GENERATORS TO IMPROVE SHORT-TERM VOLTAGE STABILITY.....</b>	<b>310</b>
<i>Yipeng Dong ; Xiaorong Xie ; Guangkai Li ; Baorong Zhou ; Wenfeng Yao</i>	
<b>ASYNCHRONOUS EXAMINATION SECURITY SYSTEM USING EAR VISUAL BIOMETRIC FOR COLLEGE STUDENTS .....</b>	<b>314</b>
<i>Fabito, B.S.</i>	
<b>STATIC VOLTAGE STABILITY ANALYSIS BASED ON IMPROVED CONTINUOUS POWER FLOW.....</b>	<b>318</b>
<i>Ruiyan Gan ; Zhaowen Luan ; Yang Yang ; Weidong Liu ; Shuai Yang</i>	
<b>GRAPHICAL ANALYSIS OF FERRORESONANCE MODES IN A VOLTAGE TRANSFORMER ENERGIZED THROUGH GRADING CAPACITANCE USING CORRELATION FUNCTION.....</b>	<b>321</b>
<i>Ali, Z. ; Swee Ang Peng ; Norfauzi, M.</i>	
<b>DIGITAL MULTIPHASE BUCK CONVERTER WITH CURRENT BALANCE/PHASE SHEDDING CONTROL.....</b>	<b>326</b>
<i>Jing-Teng Lin ; Kai-yu Hu ; Chien-Hung Tsai</i>	

<b>AN EFFECTIVE ALGORITHM FOR THE MULTI-AREA UNIT COMMITMENT</b> .....	331
<i>Yan Wang ; Pengpeng Yang ; Yangyi Zhang ; Mingqiang Wang</i>	
<b>A NOVEL INFORMATION THEORETIC APPROACH FOR FINDING SEMANTIC SIMILARITY IN WORDNET</b> .....	335
<i>Adhikari, A. ; Singh, S. ; Dutta, A. ; Dutta, B.</i>	
<b>PROCESSING OF INTEGRATED GAS SENSOR DEVICES</b> .....	341
<i>Filipovic, L. ; Selberherr, S.</i>	
<b>SPEECH AND EGG POLARITY DETECTION USING HILBERT ENVELOPE</b> .....	347
<i>Deepak, K.T. ; Ramesh, K. ; Adiga, N. ; Prasanna, S.R.M.</i>	
<b>GENERATION AND PUMP SCHEDULING IN A SHIPYARD WITH INTERRUPTIBLE LOADS</b> .....	353
<i>Zhe Jiang ; Zhimin Li ; Mingqiang Wang ; Yong Wang</i>	
<b>REAL-TIME ENERGY MONITORING SYSTEM FOR GRID-TIED PHOTOVOLTAIC INSTALLATIONS</b> .....	357
<i>Ngo, G.C. ; Floriza, J.K.I. ; Creayla, C.M.C. ; Garcia, F.C.C. ; Queen B.Macabebe, E.</i>	
<b>INVESTIGATION ON STRESS/STRAIN SENSING CHARACTERISTICS FOR MAGNETORHEOLOGICAL SMART COMPOSITE MATERIAL BY A SMS FIBER STRUCTURE</b> .....	361
<i>Binghui Li ; Dejun Liu ; Semenova, Y. ; Farrell, G. ; Hauping Chan ; Qiang Wu</i>	
<b>DEVELOPMENT OF ASSAMESE TEXT-TO-SPEECH SYNTHESIS SYSTEM</b> .....	364
<i>Sharma, B. ; Adiga, N. ; Mahadeva Prasanna, S.R.</i>	
<b>PASSIVE OPTICAL RECEIVER FOR VISIBLE LIGHT COMMUNICATION (VLC)</b> .....	370
<i>Hung-Yu Chen ; Liang, K. ; Chung-Yen Chen ; Shih-Hao Chen ; Chi-Wai Chow ; Chien-Hung Yeh</i>	
<b>QUALITY ENHANCEMENT OF THE MULTI-VIEW EXHIBITION SYSTEM</b> .....	372
<i>Chunjia Hu ; Guangtao Zhai ; Zhongpai Gao</i>	
<b>CLUSTERING OF PROTEIN-PROTEIN INTERACTION NETWORK USING FRACTAL DIMENSION OF PROTEIN SUBNETWORKS</b> .....	377
<i>Deepthi, V.R. ; Gopakumar, G.</i>	
<b>THE RELEVANCE BETWEEN DRAMATIC DECLINES OF AIR GAP BREAKDOWN VOLTAGE AND FOG-HAZE WEATHER</b> .....	382
<i>Haiqing Niu ; Tao Xu</i>	
<b>A HIERARCHICAL SEMANTIC IMAGE LABELING METHOD VIA RANDOM FORESTS</b> .....	386
<i>Tian-Rui Liu ; Shing-Chow Chan</i>	
<b>AN IMPROVED DEPTH MAP ESTIMATION METHOD BASED ON MOTION DETECTION</b> .....	391
<i>Boyu Pan ; Liming Zhang ; Yuesheng Zhu ; Guibo Luo</i>	
<b>CARRIER FREQUENCY OFFSET ESTIMATION FOR DSSS SIGNALS IN THE WIRED TEST OF BEAMFORMING NETWORKS</b> .....	396
<i>Shuai Wang ; Jun Shao ; Shuiping Tu ; Jibo Dai</i>	
<b>STUDY ON THE CHANGE TENDENCY OF ELECTRO-MAGNETIC SIGNAL UNDER DIFFERENT VACUUM DEGREE FOR 10KV VACUUM CHAMBER</b> .....	402
<i>Yuxin Mei ; Huan Yuan ; Xiaohua Wang ; Ke Sha ; Peijin Wang ; Jiahao Guo ; Weishuai Xu ; Minzhe Rong ; Wanting Wang</i>	
<b>A HYBRID NRS- CART ALGORITHM AND ITS APPLICATION ON COAL MINE FLOOR WATER-INRUSH PREDICTION</b> .....	408
<i>Fenglian Li ; Xueying Zhang ; Chunlei Du ; Lixia Huang</i>	
<b>STATE ESTIMATION OF NONLINEAR SYSTEMS USING THE UNSCENTED KALMAN FILTER</b> .....	412
<i>Almeida, J. ; Oliveira, P. ; Silvestre, C. ; Pascoal, A.</i>	
<b>MULTI-FREQUENCY BEAM SPLITTER FOR DS-CDMA SIGNALS IN THE TEST OF BEAMFORMING NETWORKS</b> .....	418
<i>Shuai Wang ; Jing Luo ; Nan Lu</i>	
<b>EFFICIENT NON-LOCAL KERNEL REGRESSION WITH STRUCTURAL CLASSIFICATION FOR MULTIVIEW IMAGE DENOISING</b> .....	424
<i>Zhou-Chi Lin ; Jia-Fei Wu ; Shing-Chow Chan</i>	
<b>NEW CFOA-BASED FLOATING LOSSLESS NEGATIVE IMMITTANCE FUNCTION EMULATORS</b> .....	428
<i>Abuelma'atti, M.T. ; Dhar, S.K.</i>	
<b>STUDY ON AN IMPROVED NORMAL FORM SOLUTION AND REDUCED-ORDER MODE RECONSTRUCTION IN POWER SYSTEM</b> .....	432
<i>Zhouqiang Wang ; Qi Huang</i>	
<b>APPLICATION OF CUBIC SPLINE INTERPOLATION IN ESTIMATING MARKET POWER UNDER DEREGULATED ELECTRICITY MARKET</b> .....	439
<i>Ahmed, S. ; Fathima, F. ; Karthikeyan, S.P. ; Sahoo, S.K. ; Rangarajan, S.S. ; Kothari, D.P.</i>	

<b>UNSCENTED TRANSFORMATIONS OF UKF FOR SENSORLESS SPEED CONTROL OF PMSM</b> .....	445
<i>Cheol Moon ; Park, J.S. ; Young Ahn Kwon ; Kennel, R.M.</i>	
<b>A REACHABILITY GRAPH-BASED ITERATIVE METHOD FOR THE SYNTHESIS OF NEAR-OPTIMAL NON-BLOCKING SUPERVISORS</b> .....	449
<i>YiFan Hou ; Mi Zhao ; Uzam, M. ; Ding Liu</i>	
<b>ADAPTIVE FORCE/POSITION CONTROL WITH UNKNOWN PARAMETERS ESTIMATION FOR A PIEZO-DRIVEN MICROMANIPULATOR</b> .....	455
<i>Yulong Zhang ; Qingsong Xu</i>	
<b>GRID RISK ASSESSMENT BASED ON CASCADING FAILURE MODEL</b> .....	461
<i>Rui Chen ; Yinguo Yang ; Lei Feng ; Ping Liu ; Lin Zhu</i>	
<b>POSSIBILITY THEORY BASED CONTINUOUS INDIAN SIGN LANGUAGE GESTURE RECOGNITION</b> .....	466
<i>Baranwal, N. ; Tripathi, K. ; Nandi, G.C.</i>	
<b>SYNCHRONOUS VECTOR CONTROL DESIGN OF MULTILEVEL INVERTERS FOR AC GRID APPLICATIONS</b> .....	471
<i>Matsa, A. ; Chaudhari, M.A.</i>	
<b>ANALYSIS OF FOREGROUND AND DISTANT SPEECH</b> .....	477
<i>Thotappa, D. ; Mahadeva Prasanna, S.R.</i>	
<b>CLASSIFICATION OF BREAST CANCER HISTOPATHOLOGY IMAGES USING TEXTURE FEATURE ANALYSIS</b> .....	483
<i>Belsare, A.D. ; Mushrif, M.M. ; Pangarkar, M.A. ; Meshram, N.</i>	
<b>HIGH EFFICIENCY CU DEPTH DECISION ALGORITHM FOR HIGH RESOLUTION APPLICATION OF HEVC</b> .....	488
<i>Xiantao Jiang ; Tian Song ; Wen Shi ; Lisheng Wang ; Shimamoto, T.</i>	
<b>KA TO M BAND MMIC FREQUENCY TRIPLER BY USING MINIATURIZATION BROADBAND BAND-PASS FILTER</b> .....	492
<i>Si-Da Tang ; Kai-Wen Cheng ; Shih-Han Hung ; Yeong-Her Wang</i>	
<b>AN IMPROVED ROTOR FLUX BASED MODEL REFERENCE ADAPTIVE CONTROLLER FOR FOUR-QUADRANT VECTOR CONTROLLED INDUCTION MOTOR DRIVES</b> .....	495
<i>Das, S. ; Pal, A. ; Kumar, R. ; Chattopadhyay, A.K.</i>	
<b>POWER TRANSFORMER DIFFERENTIAL PROTECTION ALGORITHM BASED ON DEAD ANGLE OF WAVELET ENERGY WAVEFORM</b> .....	501
<i>Tripathy, M. ; Nirala, N.</i>	
<b>A 36 GHZ FOUR-BIT TUNABLE ALL-PASS PHASE SHIFTER USING 0.15-<math>\mu</math>M GAAS TECHNOLOGY</b> .....	503
<i>En-Yang Lin ; Chia-Chen Huang ; Sida Tang ; Chun-Chi Su ; Yeong-Her Wang</i>	
<b>HIERARCHICAL MERGING OF ADJACENT SUBTREES FROM DELAUNAY TRIANGULATION WITH CENTERS OF SUPERPIXELS</b> .....	507
<i>Eu-Tteum Baek ; Yo-Sung Ho</i>	
<b>A TIME-BASED POTENTIOSTAT FOR WIDE DYNAMIC RANGE CURRENT MEASUREMENT</b> .....	511
<i>Wei-Chiun Liu ; Jen-Wei Hou ; Yu-Sin Syu ; Bin-Da Liu ; Chia-Ling Wei</i>	
<b>A STUDY OF POLY-SILICON AND TA<sub>2</sub>O<sub>5</sub> PHOTONIC CRYSTAL WAVEGUIDES FOR HAMR LIGHT DELIVERY SYSTEM</b> .....	516
<i>Watcharakitchakorn, O. ; Silapunt, R. ; Charlton, M.</i>	
<b>REFERENCE MODEL OF SPECIFICATIONS TOWARD INDEPENDENT VERIFICATION AND VALIDATION</b> .....	520
<i>Ando, T. ; Yatsu, H. ; Hisazumi, K. ; Fukuda, A. ; Matsumoto, M. ; Michiura, Y.</i>	
<b>3D FACE RECOGNITION USING SURFACE NORMALS</b> .....	523
<i>Bagchi, P. ; Bhattacharjee, D. ; Nasipuri, M.</i>	
<b>WIRELESS POWER CONSUMPTION MONITORING AND ANALYSIS SYSTEM USING WINTER'S FORECASTING METHOD</b> .....	529
<i>Enriquez, D.J.R. ; Lowell G.Villanueva, M. ; Dumlao, S.M.G. ; Reyes, R.S.J.</i>	
<b>A STRUCTURED AMP METHOD RECOVERING SIGNALS WITH A FORWARD-BACKWARD SPLITTING MODE</b> .....	535
<i>Zhonghua Xie ; Lihong Ma ; Xiangzhou Zeng</i>	
<b>DISPARITY ESTIMATION USING EDGE PRESERVING METHOD</b> .....	539
<i>Yong-Jun Chang ; Yo-Sung Ho</i>	
<b>ESTIMATING FREE SPACE IN AN ELEVATOR'S CONFINED ENVIRONMENT</b> .....	543
<i>Mohamudally, F. ; Ch'ng Sue Inn ; Lee Seng Yeong ; Chia Wai Chong</i>	

<b>A REAL-TIME OPERATING SYSTEM WITH LOCATION-TRANSPARENT INTER-CORE AND INTER-NODE SYSTEM CALLS FOR DISTRIBUTED EMBEDDED CONTROL SYSTEMS.....</b>	<b>549</b>
<i>Yokoyama, K. ; Saito, M. ; Myungryun Yoo ; Yokoyama, T.</i>	
<b>COORDINATED OPTIMIZATION AGAINST PARALLEL FLOWS IN MULTI-INFEED HVDC SYSTEM.....</b>	<b>553</b>
<i>Kang Zhao ; Yutian Liu ; Chunyi Wang</i>	
<b>A LOCAL POSTURE MANIFOLD WITH LAGRANGIAN PARALLEL CONSTRAINT FOR SUBTLE ACTION DISCRIMINATION.....</b>	<b>559</b>
<i>Renlong Pan ; Lihong Ma ; Yue Huang</i>	
<b>A COMPARATIVE ANALYSIS OF RESOURCE REQUIREMENTS FOR PARALLEL APPLICATIONS IN GPGPU.....</b>	<b>564</b>
<i>Thomas, W. ; Daruwala, R.D.</i>	
<b>RESONANCE ANALYSIS OF DFIG-BASED OFFSHORE WIND FARM.....</b>	<b>570</b>
<i>Weiguo Zhao ; Caike Xie ; Yutian Liu</i>	
<b>PORTING AN OPERATING SYSTEM ON AN ARM-BASED SENSOR PLATFORM.....</b>	<b>574</b>
<i>Legaspi, P.A.D. ; Khan, K.K. ; Santiago, K.D. ; Sayson, D.F. ; Aquino, H.O. ; Densing, C.V.J. ; Hizon, J.R.E. ; Alarcon, L.P.</i>	
<b>A NEW PLANAR PRINTED ANTENNA WITH BAND-NOTCH CHARACTERISTICS FOR UWB APPLICATIONS.....</b>	<b>577</b>
<i>Matin, M.A. ; Hossain, M.M.</i>	
<b>DESIGN OF 4X4 APERTURE-COUPLED WATER PATCH ANTENNA ARRAY.....</b>	<b>580</b>
<i>Jie Sun ; Kwai-Man Luk</i>	
<b>PROTOTYPE DEVELOPMENT AND PERFORMANCE EVALUATION OF WIRELESS LAN ACCESS POINTS FOR COMMUNITY INFORMATION NETWORK.....</b>	<b>583</b>
<i>Ogata, A. ; Matsuzaka, H. ; Taniguchi, H. ; Nomoto, M. ; Manaka, A. ; Saito, K. ; Fukuzaki, M. ; Ishii, H. ; Nozawa, Y. ; Utsu, K.</i>	
<b>CALCULATION OF INDUCED SHEATH VOLTAGE FOR TRANPOSED AND UNTRANPOSED CABLE CONDUCTORS.....</b>	<b>587</b>
<i>Shaban, M. ; Salam, M.A. ; Ang, S.P. ; Norfauzi, M. ; Wen, F. ; Voon, W.</i>	
<b>DESIGN OF A SMART SPRINKLER SYSTEM.....</b>	<b>593</b>
<i>Meyer, T.C. ; Hancke, G.P.</i>	
<b>IMPULSIVE OBSERVER BASED CHAOTIC SYNCHRONIZATION WITH APPLICATION TO INTERLEAVED CHAOTIC DIFFERENTIAL PEAKS KEYING (I-CDPK).....</b>	<b>599</b>
<i>Halde, G. ; Gandhi, A.S.</i>	
<b>LOAD BALANCING TECHNIQUE FOR CONGESTION CONTROL MULTIPATH ROUTING IN MOBILE AD HOC NETWORKS.....</b>	<b>603</b>
<i>Mallapur, S.V. ; Patil, S.R. ; Agarkhed, J.V.</i>	
<b>UE-TCAM: AN ULTRA EFFICIENT SRAM-BASED TCAM.....</b>	<b>609</b>
<i>Ullah, Z. ; Jaiswal, M.K. ; Cheung, R.C.C. ; So, H.K.H.</i>	
<b>USING NOVEL METAL OXIDES AND MULTIPLE PLASMONIC NANOSTRUCTURES FOR EMERGING ORGANIC OPTOELECTRONIC DEVICES.....</b>	<b>615</b>
<i>Choy, W.C.H.</i>	
<b>RESEARCH ON PREVENTING ZONE 3 DISTANCE RELAYS FROM OPERATING INCORRECTLY CAUSED BY NON-FAULT OVERLOAD.....</b>	<b>617</b>
<i>Xu Yan ; Han Ping ; Zhang Li ; Liu Qing</i>	
<b>PROGRESS IN SPEECH EMOTION RECOGNITION.....</b>	<b>623</b>
<i>Xueying Zhang ; Ying Sun ; Shufei Duan</i>	
<b>A THREE-OUTPUT THREE-LEVEL ZVS RESONANT INVERTER USING PSPWM WITH POWER FACTOR CORRECTION.....</b>	<b>629</b>
<i>Meesrisuk, W. ; Jangwanitlert, A.</i>	
<b>HARDWARE AND SOFTWARE DESIGN OF A LOW DC-LINK VOLTAGE AND WIDE COMPENSATION RANGE THYRISTOR CONTROLLED LC-COUPLING HYBRID ACTIVE POWER FILTER.....</b>	<b>633</b>
<i>Lei Wang ; Chi-Seng Lam ; Man-Chung Wong</i>	
<b>XPS STUDY ON THE EFFECTS OF THERMAL ANNEALING ON CeO<sub>2</sub>/La<sub>2</sub>O<sub>3</sub> STACKED GATE DIELECTRICS.....</b>	<b>637</b>
<i>Jieqiong Zhang ; Hei Wong ; Iwai, H. ; Kakushima, K.</i>	
<b>A MIXED INTEGER PROGRAMMING MODEL FOR INTRA-DAY MICROGRID SCHEDULING.....</b>	<b>642</b>
<i>Hailin Xu ; Maosheng Ding ; Duo Geng</i>	
<b>STEINMETZ THEORY APPLIED TO FUNDAMENTAL PHASE REFERENCE CURRENT CALCULATION FOR A STATCOM WITH DELTA CONFIGURATION.....</b>	<b>647</b>
<i>Wang Baoan ; Shang Jiao ; Chen Hao ; Dai Ningyi</i>	

<b>AN EFFECTIVE DISPATCH STRATEGY FOR HYBRID POWER MANAGEMENT</b> .....	652
<i>Prema, V. ; Datta, S. ; Rao, K.U.</i>	
<b>NOVEL TRAINING STRATEGIES FOR WAVELET-NEURO MODELS FOR WIND SPEED PREDICTION</b> .....	657
<i>Prema, V. ; Jnaneswar, B.S. ; Badarish, C.A. ; Ashok, P.S. ; Agarwal, S. ; Rao K, U.</i>	
<b>DESIGN AND IMPLEMENTATION OF OPTICAL CABLE LABEL SYSTEM FOR SMART SUBSTATION BASED ON QR CODE</b> .....	661
<i>Gao Lei ; Liu Yu ; Yuan Yubo ; Wang Xiaokun</i>	
<b>NON-VOLATILE D-LATCH FOR SEQUENTIAL LOGIC CIRCUITS USING MEMRISTORS</b> .....	666
<i>Ho, P.W.C. ; Almurib, H.A.F. ; Kumar, T.N.</i>	
<b>SPEECH PATTERN CLASSIFICATION USING LARGE GEOMETRIC MARGIN MINIMUM CLASSIFICATION ERROR TRAINING</b> .....	670
<i>Kitaoka, M. ; Hashimoto, T. ; Ochiai, T. ; Katagiri, S. ; Ohsaki, M. ; Watanabe, H. ; Xugang Lu ; Kawai, H.</i>	
<b>A METHOD FOR ESTIMATING WIND POWER RAMPS DURING ICE STORM</b> .....	676
<i>Hao Wang ; Hongtao Wang ; Yingzhe Jia</i>	
<b>MODE SWITCH BASED ON MACH-ZEHNDER INTERFEROMETER IN LITHIUM NIOBATE</b> .....	681
<i>Meng Ruo Zhang ; Kai Xin Chen</i>	
<b>AN ANALYSIS OF THE READ MARGIN AND POWER CONSUMPTION OF CROSSBAR RERAM ARRAYS</b> .....	684
<i>Sujin Choi ; Woogyung Sun ; Hyein Lim ; Hyungsoon Shin</i>	
<b>IDENTIFICATION OF BROKEN ROTOR BAR FAULT AND DEGREE OF LOADING IN INDUCTION MOTOR USING NEURO-WAVELETS</b> .....	687
<i>Sridhar, S. ; Uma Rao, K. ; Jade, S.</i>	
<b>RISK EVALUATION OF DISTRIBUTION SYSTEM WITH MICROGRIDS</b> .....	691
<i>Xin Dong ; Bo Zhang ; Xinyuan Tong</i>	
<b>A MODIFIED CLASS OF SEOK ULTRA-LOW POWER VOLTAGE REFERENCES FOR WIRELESS SENSOR NODES</b> .....	695
<i>Alea, M.D.D. ; Alarcon, L.P. ; Hizon, J.R.E.</i>	
<b>DRAIN SIDE SUPER JUNCTIONS CO-WORKED WITH "NPN" ARRANGED SCRS ON ESD ROBUSTNESS IN THE 45-V NLD MOS DEVICES</b> .....	699
<i>Shen-Li Chen ; Yu-Ting Huang</i>	
<b>DESIGN OF A NEW DECOUPLED COMPLIANT XYZ PARALLEL-KINEMATIC NANOPositioning STAGE</b> .....	703
<i>Xiaozhi Zhang ; Qingsong Xu</i>	
<b>ANALYSIS OF THE EFFECT OF THE DENSITY OF STATES ON THE CHARACTERISTICS OF THIN-FILM TRANSISTORS</b> .....	707
<i>Miryeon Kim ; Injae Lee ; Hyungsoon Shin ; Min-Ho Shin</i>	
<b>LOW-COST TOPOLOGIES OF CIRCULARLY POLARIZED ANTENNAS FOR 5G APPLICATIONS</b> .....	710
<i>Dia'aaldin, J. ; Shaowei Liao ; Quan Xue</i>	
<b>OPTIMAL FEATURE SUBSET SELECTION USING DIFFERENTIAL EVOLUTION WITH SEQUENTIAL EXTREME LEARNING MACHINE FOR RIVER ICE IMAGES</b> .....	716
<i>Bharathi, P.T. ; Subashini, P.</i>	
<b>CONSTRUCTION AND CONTROL STRATEGY RESEARCH OF BLACK START UNIT CONTAINING WIND FARM</b> .....	722
<i>Wei Teng ; Hongtao Wang ; Yingzhe Jia</i>	
<b>PRELIMINARY CHARACTERIZATION OF IMPULSE RADIO INTRABODY COMMUNICATION</b> .....	727
<i>Zibo Cai ; Seyedi, M. ; Zhang, G.Z. ; Rui Li ; Lai, D.T.H. ; Ye Qiang</i>	
<b>POWER-DELAY PRODUCT MINIMIZATION IN HIGH-PERFORMANCE FIXED-WIDTH MULTIPLIER</b> .....	733
<i>Ganesh Kumar, G. ; Sahoo, S.K.</i>	
<b>ANALYSIS AND DESIGN OF CMOS FULL-WAVE RECTIFYING CHARGE PUMP FOR RF ENERGY HARVESTING APPLICATIONS</b> .....	737
<i>Weiyin Wang ; Xiangjie Chen ; Hei Wong</i>	
<b>EFFECT OF THERMAL AGING ON THE DIELECTRIC PROPERTIES OF MIXTURE BETWEEN MINERAL OIL AND NATURAL ESTER</b> .....	741
<i>Suwarno ; Marbun, J.</i>	
<b>DEMAND RESPONSE AND WIND FARM INTEGRATED ECONOMIC DISPATCH IN POWER SYSTEM</b> .....	746
<i>Haijun Xing ; Haozhong Cheng ; Libo Zhang</i>	

<b>DEMAND RESPONSE FOR RESIDENTIAL LOADS USING ARTIFICIAL BEE COLONY ALGORITHM TO MINIMIZE ENERGY COST .....</b>	<b>751</b>
<i>Margaret, V. ; Uma Rao, K.</i>	
<b>STUDY ON NEW TRACTION POWER SUPPLY SYSTEM FOR POWER QUALITY COMPREHENSIVE COMPENSATION IN ELECTRIFIED RAILWAY .....</b>	<b>756</b>
<i>Minwu Chen ; Jie Luo ; Wenbing Jiang ; Yaowu Wang</i>	
<b>3D FATIGUE FROM STEREOSCOPIC 3D VIDEO DISPLAYS: COMPARING OBJECTIVE AND SUBJECTIVE TESTS USING ELECTROENCEPHALOGRAPHY .....</b>	<b>761</b>
<i>Siu-Ming Choy ; Kwok-Ho Chiu ; Cheng, E. ; Burnett, I.</i>	
<b>THE INFLUENCE OF COMMUTATION FAILURES ON THE RELIABILITY OF HVDC TRANSMISSION SYSTEMS .....</b>	<b>765</b>
<i>Haipeng Xie ; Zhaohong Bie ; Pengfei Dong ; Chao Zheng</i>	
<b>APPROXIMATE DYNAMIC PROGRAMMING BASED CONTROLLER DESIGN FOR INTERCONNECTED AGC SCHEME .....</b>	<b>769</b>
<i>Kumar, N. ; Tyagi, B. ; Kumar, V.</i>	
<b>ON-LINE VOLTAGE STABILITY ASSESSMENT STRATEGY CONSIDERING LIMIT OF VOLTAGE SOURCE .....</b>	<b>775</b>
<i>Li Peng ; Yuan Yubo ; Wang Yuting</i>	
<b>ENHANCEMENT OF AN INSULAR POWER SYSTEM IN THE OUTBACK OF SOUTH AUSTRALIA .....</b>	<b>780</b>
<i>Singh, R.K. ; Gol, O. ; Nafalski, A. ; Nedic, Z.</i>	
<b>INVENTORY MANAGEMENT METHOD TO DETERMINED SPARE TRANSFORMER OPTIMIZATION .....</b>	<b>783</b>
<i>Marbun, M.P. ; Sinisuka, N.I. ; Hariyanto, N.</i>	
<b>EXTENDED NEIGHBOURHOOD BASED LINEAR RECONSTRUCTION OF DIFFUSION KURTOSIS IMAGING .....</b>	<b>789</b>
<i>Raja, R. ; Sinha, N. ; Saini, J.</i>	
<b>ANALYZING RESIDENT LIFE CYCLE BASED ON SHORT-TIME CROSS-CORRELATION .....</b>	<b>795</b>
<i>Kobiyama, Y. ; Qiangfu Zhao ; Omomo, K. ; Taya, M.</i>	
<b>AUTOMATION OF CROSS-SECTIONAL ANALYSIS OF NEUROIMAGES USING DIFFUSION KURTOSIS IMAGING .....</b>	<b>801</b>
<i>Raja, R. ; Sinha, N. ; Saini, J.</i>	
<b>TIME OVERCURRENT RELAY COORDINATION USING THE LEVY FLIGHT CUCKOO SEARCH ALGORITHM .....</b>	<b>807</b>
<i>Gokhale, S.S. ; Kale, V.S.</i>	
<b>DESIGN OF ULTRA-WIDEBAND BANDPASS FILTER WITH TWO RECONFIGURABLE NOTCHES USING TERMINATED CROSS-SHAPED RESONATOR .....</b>	<b>813</b>
<i>Goralczyk, M. ; Teng Cheng ; Kam-Weng Tam ; Wai-Wa Choi ; Wojtasiak, W. ; Modelski, J.</i>	
<b>TRADE-OFF BETWEEN SENSITIVITY AND DYNAMIC RANGE IN DESIGNING MEMS CAPACITIVE PRESSURE SENSOR .....</b>	<b>815</b>
<i>Ramesh, A.K. ; Ramesh, P.</i>	
<b>HARMONIC ANALYSIS OF AN HVDC RECTIFIER USING UNIFIED HARMONIC DOMAIN ALGORITHM AND TIME DOMAIN INITIALIZATION APPROACH .....</b>	<b>818</b>
<i>Chung, Y.I. ; Bonifacio, J.M. ; Orillaza, J.R.C.</i>	
<b>DESIGN OF DIGITAL FUNCTIONAL BLOCKS USING HYBRID MEMRISTOR STRUCTURES .....</b>	<b>824</b>
<i>Kumar, G. ; Datta, K.</i>	
<b>A PRINTED ANTENNA WITH CIRCULAR CUT FOR BANDWIDTH ENHANCEMENT .....</b>	<b>829</b>
<i>AnilKumar, C.V. ; Damodaran, S. ; Paul, B.</i>	
<b>EFFECTS OF OXYGEN ANNEALING ON THE PERFORMANCE OF PEROVSKITE SOLAR CELLS .....</b>	<b>832</b>
<i>Zhiwei Ren ; Ng, A. ; Surya, C. ; Djurusic, A.B. ; Shu Kong So</i>	
<b>POWER FACTOR CORRECTION CIRCUIT WITH ONE CYCLE CONTROLLED BRIDGELESS ZETA CONVERTER FOR DISPLAY MONITORS IN HOSPITALS .....</b>	<b>835</b>
<i>Warrier, P.V. ; Preetha, P.K.</i>	
<b>IN VIVO NON-INVASIVE IMAGING OF THE ADULT ZEBRAFISH BRAIN WITH A 1325 NM LONG RANGE SPECTRAL-DOMAIN OPTICAL COHERENCE TOMOGRAPHY SYSTEM .....</b>	<b>841</b>
<i>Jian Zhang ; Zhen Yuan</i>	
<b>REDUCTION OF CONVERTER RATING FOR A DELTA-CONNECTED STATCOM BY OPTIMIZING PHASE HARMONIC REFERENCES .....</b>	<b>844</b>
<i>Wang Baoan ; Shang Jiao ; Chen Hao ; Liu Li ; Dai Ningyi</i>	

<b>INTELLIGENT OPERATING ARCHITECTURE FOR AUDIO-VISUAL BREAST SELF-EXAMINATION MULTIMEDIA TRAINING SYSTEM .....</b>	<b>850</b>
<i>Kerwin C.Billonés, R. ; Masilang, R.A.A. ; Jose, J.A.C. ; Dadios, E.P.</i>	
<b>WAFER REQUIREMENT FOR FUTURE POWER DEVICES .....</b>	<b>856</b>
<i>Nishizawa, S.-I.</i>	
<b>THE DESIGN AND ANALYSIS OF THE PI REGULATOR OF THREE-PHASE VOLTAGE SOURCE PWM RECTIFIER .....</b>	<b>858</b>
<i>Xiangping Kong ; Yubo Yuan ; Peng Li ; Ye Wang ; Jinjiao Lin</i>	
<b>CORTICAL CHANGES OF HEMODYNAMIC SIGNALS DURING MOTOR SKILL LEARNING: A FUNCTIONAL NIRS STUDY .....</b>	<b>863</b>
<i>Fengmei Lu ; Zhen Yuan</i>	
<b>A FAST ACQUISITION ALGORITHM BASED ON FFT FOR BOC MODULATED SIGNALS .....</b>	<b>868</b>
<i>Yanbin Zhang ; Weijun Lu ; Dunshan Yu</i>	
<b>HIGH FREQUENCY MODELING OF POWER MOSFET .....</b>	<b>874</b>
<i>Zhijuan Zhang ; Yumei Zuo ; Chaoyun Deng</i>	
<b>COORDINATED MAXIMUM POWER POINT TRACKING IN MODULAR PHOTOVOLTAIC POWER SYSTEMS .....</b>	<b>878</b>
<i>Arriola, N.A.A. ; Ramos, M.C.</i>	
<b>GESTURE RECOGNITION FOR A COOKING ASSISTANT SYSTEM .....</b>	<b>883</b>
<i>Hijioka, Y. ; Murakami, M. ; Tadahiko, K.</i>	
<b>THE INFLUENCES OF MESSAGE JITTER ON LINEAR INTERPOLATION FOR ELECTRONIC TRANSFORMER DATA SYNCHRONIZATION .....</b>	<b>887</b>
<i>Pang Fu-bin ; Yuan Yu-bo ; Ji Jian-fei</i>	
<b>DISCRETE COORDINATE SYSTEM WITH ISOTROPY ON A SURFACE WITH REGULAR TESSELLATIONS .....</b>	<b>891</b>
<i>Miyahara, K. ; Ferrer, E.C. ; Ratsamee, P.</i>	
<b>A MODIFIED INSPECTION MODEL BASED ON A TWO-STAGE FAILURE PROCESS .....</b>	<b>895</b>
<i>Wang, Hui-ying ; Peng, Rui ; Wang, Wen-bin ; Liu, Xue-juan</i>	
<b>IMAGE BASED VISUAL SERVOING FROM HYBRID PROJECTED FEATURES .....</b>	<b>899</b>
<i>Guoqiang Ye ; Weiguang Li ; Hao Wan ; Huidong Lou ; Zhijiang Lu ; Shaohua Zheng</i>	
<b>DESIGN AND TRIAL OF A LOW COST INSPECTION GRADED PORTABLE EMISSION MEASUREMENT SYSTEM (PEMS): FOR IN-THE FIELD EXHAUST EMISSION MEASUREMENT IN HONG KONG .....</b>	<b>905</b>
<i>Chan, E. ; Rudolph, H.</i>	
<b>ACCURACY-CONFIGURABLE APPROXIMATE MULTIPLIER WITH ERROR DETECTION AND CORRECTION .....</b>	<b>909</b>
<i>Mehta, A. ; Maurya, S. ; Sharief, N. ; Pranay, B.M. ; Jandhyala, S. ; Purini, S.</i>	
<b>A COMPARATIVE STUDY OF FREQUENCY DOMAIN BASED APPROACHES FOR IMAGE TAMPER DETECTION .....</b>	<b>913</b>
<i>Sharma, A. ; Singh, P.</i>	
<b>PERFORMANCE EVALUATION FOR MODBUS/TCP USING NETWORK SIMULATOR NS3 .....</b>	<b>917</b>
<i>BongSeock Kim ; Dongik Lee ; TaeHo Choi</i>	
<b>ARCHITECTURE OF HETEROGENEOUS WIRELESS ACCESS NETWORKS: A SHORT SURVEY .....</b>	<b>922</b>
<i>Khan, M.A. ; Supeng Leng ; Wang Xiang ; Kun Yang</i>	
<b>MONTE CARLO SIMULATION PREDICTS DEEP-SEATED PHOTOACOUSTIC EFFECT IN HETEROGENEOUS TISSUES .....</b>	<b>928</b>
<i>Yubin Liu ; Zhen Yuan</i>	
<b>ANALYSIS ON 1 MHZ HIGH FREQUENCY RESONANT INVERTER PARALLEL CONNECTION .....</b>	<b>932</b>
<i>Zhijuan Zhang ; Chaoyun Deng ; Yumei Zuo</i>	
<b>BOOSTING 3D MODEL RETRIEVAL WITH CLASS VOCABULARIES AND DISTANCE VECTOR REVISION .....</b>	<b>936</b>
<i>Yaozhen Wang ; Zhiwen Liu ; Fengqian Pang ; Heng Li</i>	
<b>A NEW TRIANGULATION ALGORITHM FROM 3D UNORGANIZED DENSE POINT CLOUD .....</b>	<b>941</b>
<i>Dongsheng Zhou ; Yan Xu ; Qiang Zhang ; Xiaopeng Wei</i>	
<b>DESIGN OF PHOTOVOLTAIC POWER GENERATION MPPT CONTROLLER BASED ON SIC MOSFET .....</b>	<b>947</b>
<i>Shuangming Duan ; Gangui Yan ; Liguang Jin ; Jun Ren ; Wei Wu</i>	
<b>A RISK ASSESSMENT APPROACH ON ELECTRICAL SUBSTATION FOR DISPATCHING OPERATION .....</b>	<b>952</b>
<i>Guangmin Fan ; Lingxu Guo ; Wei Liang ; Hongtao Qie ; Dongxu Lu ; Kai Hou ; Yuan Zeng</i>	

<b>GAUSSIAN BELIEF PROPAGATION FOR DISTRIBUTED SIMULTANEOUS LOCALIZATION AND TRACKING IN WIRELESS SENSOR NETWORKS.....</b>	<b>957</b>
<i>Nan Wu ; Zesong Fei ; Bin Li ; Hua Wang ; Jingming Kuang</i>	
<b>A 400MV 0.59MW LOW-POWER CAM-BASED PATTERN MATCHING SYSTEM ON 65NM SOTB PROCESS.....</b>	<b>963</b>
<i>Duc-Hung Le ; Sugii, N. ; Kamohara, S. ; Hong-Thu Nguyen ; Ishibashi, K. ; Cong-Kha Pham</i>	
<b>SQUARE ROOT UNSCENTED INFORMATION FILTER FOR MULTIPLE MODEL ESTIMATION.....</b>	<b>965</b>
<i>Guoliang Liu ; Guohui Tian</i>	
<b>DEVELOPMENT OF A THREE FREEDOMS ANKLE REHABILITATION ROBOT FOR ANKLE TRAINING.....</b>	<b>969</b>
<i>Zhijiang Lu ; Weiguang Li ; Mengjie Li ; Zhengzhi Wu ; Lihong Duan ; Zhongqiu Li ; Xicui Ou ; Chunbao Wang ; Lin Wang ; Jian Qin ; Yulong Wang ; Jianjun Long ; Meiling Huang ; Quihong Wang</i>	
<b>SIGNIFICANCE OF GLOTTAL ACTIVITY DETECTION FOR SPEAKER VERIFICATION IN DEGRADED AND LIMITED DATA CONDITION.....</b>	<b>974</b>
<i>Pandey, A. ; Das, R.K. ; Adiga, N. ; Gupta, N. ; Mahadeva Prasanna, S.R.</i>	
<b>IMPACT OF AGE ON BODY POSTURAL SWAY.....</b>	<b>980</b>
<i>Ghahramani, M. ; Naghdy, F. ; Stirling, D. ; Naghdy, G. ; Potter, J.</i>	
<b>BIG DATA AND INDUSTRIAL INTERNET OF THINGS FOR THE MARITIME INDUSTRY IN NORTHWESTERN NORWAY.....</b>	<b>986</b>
<i>Hao Wang ; Osen, O.L. ; Guoyuan Li ; Wei Li ; Hong-Ning Dai ; Wei Zeng</i>	
<b>A COMBINATION OF MOBILITY, LOAD AND SERVICES FOR NETWORK SELECTION IN HETEROGENOUS WIRELESS NETWORK.....</b>	<b>991</b>
<i>Zaini, K.M. ; Shariff, A.R.M. ; Madi, M.K.M.</i>	
<b>REMOTE DETECTING LOW VOLTAGE RIDE THROUGH ABILITY OF DFIG.....</b>	<b>995</b>
<i>Caike Xie ; Weiguo Zhao ; Yutian Liu</i>	
<b>IMPROVING BREAKDOWN VOLTAGE FOR DOUBLE-CHANNEL AIGAN/GAN HEMTS WITH SLANT FIELD-PLATE.....</b>	<b>1000</b>
<i>Yang-Hua Chang ; Kuo-Nan Zhuang</i>	
<b>THE HISTOGRAM PROCESSING ALGORITHM FOR VEHICLE CAMERA IMAGE PIXEL CONTRAST IMPROVING.....</b>	<b>1002</b>
<i>Sung-Il Hong ; Chi-Ho Lin</i>	
<b>FUZZY LOGIC CONTROL: DESIGN OF A 'MINI' FUZZY ASSOCIATIVE MATRIX (FAM) TABLE ALGORITHM IN MOTOR SPEED CONTROL.....</b>	<b>1008</b>
<i>Baldovino, R.G. ; Dadios, E.P.</i>	
<b>ON THE COMPACT MODELING OF DOUBLE GATE P-N-I-N TUNNELING FIELD-EFFECT TRANSISTORS.....</b>	<b>1012</b>
<i>Wanjie Xu ; Hei Wong ; Iwai, H.</i>	
<b>HIGH ACCURACY PRESSURE TYPE LIQUID LEVEL MEASUREMENT SYSTEM CAPABLE OF MEASURING DENSITY.....</b>	<b>1014</b>
<i>Ki-Woong Park ; Hyeon Cheol Kim</i>	
<b>3D IMAGE DENOISING USING STEREO CORRESPONDENCES.....</b>	<b>1019</b>
<i>Ngai Li ; Jimmy Li, J.S. ; Randhawa, S.</i>	
<b>A COMPOUND METHOD BASED ON EXTENDED DISTURBANCE OBSERVER AND ADAPTIVE ROBUST CONTROL FOR MOTION CONTROL OF DC MOTORS.....</b>	<b>1023</b>
<i>Yanyu Yang ; Dapeng Tian ; Ping Jia ; Yong Wang</i>	
<b>EMERGING RECONFIGURABLE ANTENNA ELEMENTS FOR BROADBAND WIRELESS COMMUNICATION SYSTEMS.....</b>	<b>1029</b>
<i>Wei Lin ; Hang Wong ; Jun Xiang</i>	
<b>IMPLEMENTATION OF 64BIT HIGH SPEED MULTIPLIER FOR DSP APPLICATION- BASED ON VEDIC MATHEMATICS.....</b>	<b>1035</b>
<i>Jinesh, S. ; Ramesh, P. ; Thomas, J.</i>	
<b>COMPARATIVE ANALYSIS OF TRAFFIC PATTERNS ON CENTRE CONNECTED TOPOLOGIES BASED ON BURTON NORMAL FORM.....</b>	<b>1040</b>
<i>Chauhan, A. ; Punhani, A. ; Nitin</i>	
<b>APPLICATION OF SYSTEMIC DESIGN THINKING FOR PROGRAM MANAGEMENT.....</b>	<b>1046</b>
<i>Hussaini, S.W. ; Vinnakota, T.</i>	
<b>MOBILE-BASED WEARABLE-TYPE OF DRIVER FATIGUE DETECTION BY GSR AND EMG.....</b>	<b>1052</b>
<i>Lee Boon-Leng ; Lee Dae-Seok ; Lee Boon-Giin</i>	
<b>AUDIO SEGMENTATION BASED APPROACH FOR IMPROVED EMOTION RECOGNITION.....</b>	<b>1056</b>
<i>Pandharipande, M.A. ; Kopparapu, S.K.</i>	

<b>COMPARISON OF NATIVE AND NONNATIVE SPEAKERS' PERSPECTIVE IN ANIMATED TEXT VISUALIZATION TOOL</b> .....	1060
<i>Syafikah Binti Samsudin, N. ; Mano, K.</i>	
<b>AN IMPROVED CONTROL STRATEGY OF STATCOM FOR GRID VOLTAGE UNBALANCE COMPENSATION</b> .....	1066
<i>Gong Hong ; Wang Yuhong ; Li Yuan</i>	
<b>INVESTIGATION OF AN ADVANCED COMPENSATED MHO RELAY ON DOUBLE CIRCUIT SERIES COMPENSATED TRANSMISSION LINE</b> .....	1070
<i>Manori, A. ; Tripathy, M. ; Gupta, H.O.</i>	
<b>AN ENERGY EFFICIENT 2.4GHZ OOK RF TRANSCEIVER IMPLEMENTED IN A 65NM CMOS PROCESS</b> .....	1075
<i>Panes, A.M. ; Cabanlong, J.F. ; Inocencio, D.C. ; Lodronio, C.L. ; Hizon, J.R. ; Alarcon, L.</i>	
<b>ICA BASED ARTIFICIAL NEURAL NETWORK MODEL FOR VOLTAGE STABILITY MONITORING</b> .....	1081
<i>Sajan, K.S. ; Kumar, V. ; Tyagi, B.</i>	
<b>AN EFFICIENT DESIGN OF SERIAL AND PARALLEL MEMORY USING QUANTUM DOT CELLULAR AUTOMATA</b> .....	1084
<i>Roy, S.K. ; Nalini, R. ; Sharan, P. ; Srinivas, T.</i>	
<b>FREQUENCY-AGILE SLOT ANTENNA USING CAPACITIVE LOADED PARALLEL STRIPS</b> .....	1088
<i>Wai-Wa Choi JieYang</i>	
<b>EAVESDROPPING ACTIVITIES IN WIRELESS NETWORKS: IMPACT OF CHANNEL RANDOMNESS</b> .....	1091
<i>Xuran Li ; Hong-Ning Dai ; Yuanyuan Wang ; Hao Wang</i>	
<b>A MILLER-COMPENSATED AMPLIFIER WITH G<sub>m</sub>-BOOSTING</b> .....	1095
<i>Ming Wai Lau ; Ho, M. ; Kai Ho Mak ; Shi Bu ; Ka Nang Leung ; Wang Ling Goh</i>	
<b>COOPERATIVE LOCATION TECHNOLOGY IN CELLULAR NETWORK WITH NLOS PROBLEM</b> .....	1101
<i>Zhao Junhui ; Jin Xiaocen ; Jiang Tingting ; Li Lei</i>	
<b>IMPLEMENTATION OF AN ARTIFICIAL NEURAL NETWORK IN RECOGNIZING IN-FLIGHT QUADROTOR IMAGES</b> .....	1105
<i>Nakano, R.C.S. ; Bandala, A. ; Faelden, G.E. ; Maitiiigo, J.M. ; Dadios, E.P.</i>	
<b>PARTIAL LOAD SHEDDING USING ANT COLONY ALGORITHM IN SMART GRID ENVIRONMENT</b> .....	1110
<i>Margaret, V. ; Rao, K.U.</i>	
<b>WORST-CASE ROBUST BEAMFORMING FOR WIRELESS RELAY NETWORKS WITH DIRECT LINK</b> .....	1115
<i>Nanmiao Wu ; Shaodan Ma ; Haihua Chen</i>	
<b>SVM-BASED APPROACH FOR HUMAN DAILY MOTION RECOGNITION</b> .....	1121
<i>Ma, H.T. ; Xinrong Zhang ; Haitao Yang ; Junxiu Liu ; Mengting Chen ; Ping Gong</i>	
<b>MONOCULAR DEPTH LEVEL ESTIMATION FOR BREAST SELF-EXAMINATION (BSE) USING RGBD BSE DATASET</b> .....	1125
<i>Jose, J.A.C. ; Cabatuan, M.K. ; Kerwin Billones, R. ; Dadios, E.P. ; Gan Lim, L.A.</i>	
<b>DUAL PUMP BRILLOUIN LASER FOR ROF MILLIMETERWAVE CARRIER GENERATION WITH TUNABLE RESOLUTION</b> .....	1131
<i>Kanesan, T. ; Maskuriy, F. ; Hafiz, M. ; Mohamad, R. ; Mitani, S.M. ; Hizan, H.M. ; Rahim, A.I.A. ; Haigh, P.A. ; Rajbhandari, S. ; Gee-Kung Chang</i>	
<b>PERCEPTUAL ROBUST AND SECURE IMAGE HASHING USING RING PARTITION-PGNMF</b> .....	1137
<i>Karsh, R.K. ; Laskar, R.H.</i>	
<b>DESIGN AND OPTIMIZATION OF HIGH EFFICIENCY GAN HEMT CLASS-E POWER AMPLIFIERS</b> .....	1143
<i>Filipek, T.A.</i>	
<b>PROPOSED SYSTEM FOR PREDICTING BUY, HOLD AND SELL RECOMMENDATIONS FOR A PUBLICLY LISTED PHILIPPINE COMPANY USING COMPUTATIONAL INTELLIGENCE</b> .....	1147
<i>Morta, R. ; Dadios, E.</i>	
<b>EVENT BASED EMOTION RECOGNITION FOR REALISTIC NON-ACTED SPEECH</b> .....	1155
<i>Chakraborty, R. ; Pandharipande, M. ; Kopparapu, S.</i>	
<b>DETECTION OF SIP SIGNALING ATTACKS USING TWO-TIER FINE GRAINED MODEL FOR VOIP</b> .....	1160
<i>Vennila, G. ; Manikandan, M.S.K. ; Aswathi, S.</i>	
<b>NEW ENERGY EFFICIENT ROUTING ALGORITHM FOR WIRELESS SENSOR NETWORK</b> .....	1167
<i>Chan Hiu Fai ; Rudolph, H.</i>	

<b>DIFFERENTIAL PROTECTION OF INDIRECT SYMMETRICAL PHASE SHIFT TRANSFORMER AND INTERNAL FAULTS CLASSIFICATION USING WAVELET AND ANN .....</b>	<b>1172</b>
<i>Bhasker, S.K. ; Bera, P.K. ; Kumar, V. ; Tripathy, M.</i>	
<b>A KNOWLEDGE EXTRACTION SYSTEM (KEYS) BASED ON UNL KNOWLEDGE INFRASTRUCTURE .....</b>	<b>1178</b>
<i>Alansary, S. ; Nagi, M.</i>	
<b>DESIGNING AN ORGANIZATION STRUCTURE FOR LARGE AND COMPLEX IT PROGRAMS USING THE VIABLE SYSTEM MODEL(VSM) .....</b>	<b>1184</b>
<i>Kummamuru, S. ; Hussaini, S.W.</i>	
<b>AN 8-B 1.5MS/S 2-BIT PER CYCLE SAR ADC WITH PARASITIC INSENSITIVE SINGLE CAPACITIVE REFERENCE DAC .....</b>	<b>1189</b>
<i>Bhat, K.G. ; Laxminidhi, T. ; Bhat, M.S.</i>	
<b>IMAGE INTERPOLATION BY USING GAUSSIAN REGULARIZED REGRESSION WITH CROSS-BASED WINDOW .....</b>	<b>1195</b>
<i>Yang-Ting Chou ; Shu-Huei Chiou ; Jar-Ferr Yang</i>	
<b>INTRA-FACIAL-FEATURE CANONICAL CORRELATION ANALYSIS FOR FACE RECOGNITION .....</b>	<b>1199</b>
<i>Yang-Ting Chou ; Jar-Ferr Yang</i>	
<b>ROBUSTLY STATION-KEEPING FOR THE AIRSHIP SUBJECT TO STRATOSPHERIC WIND .....</b>	<b>1203</b>
<i>Huiyu Jin ; Jihui Qiao ; Lili Liu</i>	
<b>AN IMPROVED RISK ASSESSMENT CONSIDERING SPINNING RESERVE OF POWER SYSTEM WITH WIND FARM INTEGRATION .....</b>	<b>1208</b>
<i>Yuan Zeng ; Baozhu Zhou ; Wenfeng Zhu ; Chao Qin ; Xin Zhang ; Yuanyuan Li ; Zhenda Hu ; Zhangsui Lin</i>	
<b>CORDIC AND TAYLOR BASED FPGA MUSIC SYNTHESIZER .....</b>	<b>1212</b>
<i>Adiono, T. ; Timothy, V. ; Ahmadi, N. ; Candra, A. ; Mufadli, K.</i>	
<b>A NEW DESIGN OF ALUMINIUM CANTILEVER WITH EMBEDDED PIEZOELECTRIC CERAMIC FILM IN RF MEMS DEVICES FOR ENERGY HARVESTING .....</b>	<b>1218</b>
<i>Chopra, K. ; Pandey, S.</i>	
<b>REAL-TIME AUTOMATIC MONITORING SYSTEM FOR SLEEP APNEA USING SINGLE-LEAD ELECTROCARDIOGRAM .....</b>	<b>1224</b>
<i>Ma, H.T. ; Junxiu Liu ; Pu Zhang ; Xinrong Zhang ; Min Yang</i>	
<b>CLASSIFICATION OF MULTICLASS EEG SIGNAL RELATED TO MENTAL TASK USING HIGUCHI FRACTAL DIMENSION AND 10-STATISTIC PARAMETERS - SUPPORT VECTOR MACHINE .....</b>	<b>1228</b>
<i>Rahmat, A.B. ; Iramina, K.</i>	
<b>ENERGY EFFICIENT MULTI-HOP ROUTING BASED ON IMPROVED LEACH-CE FOR WIRELESS SENSOR NETWORK .....</b>	<b>1234</b>
<i>Kumar, P. ; Singh, J.P. ; Kumar, D. ; Singh, M.P.</i>	
<b>SOURCE LOCATION PRIVACY USING MULTIPLE-PHANTOM NODES IN WSN .....</b>	<b>1240</b>
<i>Kumar, P. ; Singh, J.P. ; Vishnoi, P. ; Singh, M.P.</i>	
<b>TRANSIENT ANODE VOLTAGE MODELING OF IGBT AND ITS CARRIER LIFETIME DEPENDENCE .....</b>	<b>1246</b>
<i>Das, A. ; Islam, N. ; Haq, M.-U. ; Khan, Z.R.</i>	
<b>VOLTAGE SENSITIVITY-BASED TRANSIENT VOLTAGE STABILITY ANALYSIS CONSIDERING HVDC RECOVERY CHARACTERISTICS .....</b>	<b>1251</b>
<i>Peidong Chen ; Zhaobin Du ; Fujun Zhan ; Yao Zhang</i>	
<b>NETWORK ANALYSIS WITH REPORT AUTHORIZING (NARA) .....</b>	<b>1256</b>
<i>Caldez, R. ; Castro, J.G. ; Co, K.R. ; Ross Franco, G.</i>	
<b>DEVELOPMENT OF A NOVEL FINGER AND WRIST REHABILITATION ROBOT FOR FINGER AND WRIST TRAINING .....</b>	<b>1260</b>
<i>Chunbao Wang ; Lin Wang ; Jian Qin ; Zhengzhi Wu ; Lihong Duan ; Zhongqiu Li ; Xicui Ou ; Weiguangli ; Zhijiang Lu ; Mengjie Li ; Yulong Wang ; Jianjiu Long ; Meiling Huang ; Qinliang Wang</i>	
<b>TIME DISCRETENESS OF COMMUTATION FAILURE IN HVDC TRANSMISSION .....</b>	<b>1265</b>
<i>Xiaohua Li ; Chao Ye ; Jiaqi Wu ; Lizhu Wu ; Longbo Luo ; XiaoBing Ding</i>	
<b>A BALANCED-TO-UNBALANCED WITH BANDPASS RESPONSES .....</b>	<b>1271</b>
<i>Kai Xu Wang ; Hang Wong ; Jun Xiang ; Xiu Yin Zhang</i>	
<b>DESIGN AND IMPLEMENTATION OF A WEB-BASED FACULTY INFORMATION SYSTEM .....</b>	<b>1274</b>
<i>Ross L.Franco, G.</i>	
<b>OVERVIEW OF VOLTAGE SAG PROFILE ESTIMATION .....</b>	<b>1279</b>
<i>Cruz, I.B.N.C. ; Lavega, A.P. ; Orillaza, J.R.C.</i>	

<b>THE APPLICATION OF THE IMPROVED PARTICLE SWARM OPTIMIZATION ON DYNAMIC ECONOMIC DISPATCH OF POWER SYSTEM WITH WIND FARMS .....</b>	<b>1285</b>
<i>Weidong Liu ; Zhaowen Luan ; Yang Yang ; Ruiyan Gan ; Hui Zhao</i>	
<b>IMPACT OF EACH CAMERA ON MULTIPLE CAMERA VISUAL SPEECH RECOGNIZER USING ANOVA: A BRIEF STUDY .....</b>	<b>1291</b>
<i>Biswas, A. ; Sahu, P.K. ; Chandra, M.</i>	
<b>DESIGN OF DUAL-BAND BANDPASS FILTERS USING CROSS-SHAPED RESONATOR AND SPURLINE .....</b>	<b>1296</b>
<i>Kuchta, D.L. ; Teng Cheng ; Kam-Weng Tam ; Wai-Wa Choi ; Wojtasiak, W. ; Modelski, J.</i>	
<b>A VERTICAL SUPER-JUNCTION STRAINED-SILICON CHANNEL POWER MOSFET.....</b>	<b>1298</b>
<i>Punetha, M. ; Singh, Y. ; Thapliyal, S.</i>	
<b>BINARIZATION OF OLD HALFTONE TEXT DOCUMENTS .....</b>	<b>1302</b>
<i>Adak, C. ; Maitra, P. ; Chaudhuri, B.B. ; Blumenstein, M.</i>	
<b>CHECKIT - A LOW COST MOBILE OMR SYSTEM.....</b>	<b>1307</b>
<i>Patel, R. ; Sanghavi, S. ; Gupta, D. ; Raval, M.S.</i>	
<b>EYE STATE ANALYSIS USING EYEMAP FOR DROWSINESS DETECTION .....</b>	<b>1312</b>
<i>Bolosan, J.L.C. ; dela Torre, M.L.L. ; Gomez, J.R. ; Luna, J.A.S. ; Serrano, M.F.P. ; Prado, S.V. ; Asilo, C.R.B. ; dela Cruz, A.R. ; Bandala, A.A. ; Roxas, E.A. ; Vicerra, R.R.P.</i>	
<b>A MULTIPLE LEVEL MIMO FUZZY LOGIC BASED INTELLIGENCE FOR MULTIPLE AGENT COOPERATIVE ROBOT SYSTEM .....</b>	<b>1317</b>
<i>Vicerra, R.R.P. ; David, K.K.A. ; dela Cruz, A.R. ; Roxas, E.A. ; Simbulan, K.B.C. ; Bandala, A.A. ; Dadios, E.P.</i>	
<b>SMOOTHING TERM BASED NOISE CORRELATION MATRIX CONSTRUCTION FOR MIMO-OFDM WIRELESS NETWORKS FOR IMPULSE NOISE MITIGATION .....</b>	<b>1324</b>
<i>Girija, S.P. ; Rao, K.D.</i>	
<b>A LOW-RESOURCE LOW-LATENCY HYBRID ADAPTIVE CORDIC IN 180-NM CMOS TECHNOLOGY .....</b>	<b>1329</b>
<i>Hong-Thu Nguyen ; Xuan-Thuan Nguyen ; Cong-Kha Pham ; Trong-Thuc Hoang ; Duc-Hung Le</i>	
<b>WIRELESS REAL-TIME PERFORMANCE MONITORING WITH FUZZY LOGIC PROTECTION CAPABILITY FOR POWER INVERTER .....</b>	<b>1333</b>
<i>Dimaculangan, F.J.P. ; Dumlao, S.M.G. ; Reyes, R.S.J.</i>	
<b>SDLM: SOURCE DETECTION BASED LOCAL MONITORING IN WIRELESS SENSOR NETWORKS.....</b>	<b>1339</b>
<i>Prathap, U. ; Nisha, K.B. ; Shenoy P, D. ; Venugopal, K.R.</i>	
<b>A REAL TIME URBAN FLOOD MONITORING SYSTEM FOR METRO MANILA .....</b>	<b>1344</b>
<i>Garcia, F.C.C. ; Retamar, A.E. ; Javier, J.C.</i>	
<b>DIGITIZATION OF THE ENTIRE TRAFFIC SYSTEM AND MITIGATION OF THE ONGOING TRAFFIC CRISIS ACROSS CITIES OF DEVELOPING NATIONS.....</b>	<b>1349</b>
<i>Yasar, M.S. ; Rashid, T. ; Rhaman, K.</i>	
<b>ROBUST HEART RATE ESTIMATE FROM PPG SIGNAL UTILIZING THE HARMONIC ANALYSIS OF MOTION SIGNAL .....</b>	<b>1355</b>
<i>Hasan, Z. ; Haque, M.A.</i>	
<b>LEADER-FOLLOWING DISTRIBUTED CONTROL OF MULTIPLE NONHOLONOMIC WHEELED MOBILE ROBOTS.....</b>	<b>1359</b>
<i>Lee Zhi Xian ; Mahyuddin, M.N. ; Herrmann, G.</i>	
<b>DESIGN AND IMPLEMENTATION OF A VARIABLE STEP-SIZE TRANSFORM DOMAIN NLMS ADAPTIVE FILTER .....</b>	<b>1365</b>
<i>Zhao, W. ; Chan, S.C.</i>	
<b>SELF-CONTAINED TRACK AND TRACE USING GPRS.....</b>	<b>1368</b>
<i>Stephenson, M.J. ; Hancke, G.P.</i>	
<b>DYNAMIC MODEL OF BATTERY CHARGING.....</b>	<b>1374</b>
<i>Akbar, M.N. ; Islam, M.M. ; Ahmed, S.S. ; Al Hye, A.</i>	
<b>RESOLUTION ENHANCEMENT OF CT IMAGES USING MULTIPLE LOW RESOLUTION SUB-PIXEL SHIFTED IMAGES .....</b>	<b>1378</b>
<i>Choudhury, N.A. ; Haque, M.A.</i>	
<b>DESIGN, SIMULATION &amp; IMPLEMENTATION OF EMBEDDED CONTROLLER (ARM-7) FOR QUASI-RESONANT CONVERTER BASED INDUCTION MELTING MACHINE .....</b>	<b>1382</b>
<i>Shah, H.M. ; Joshi, S.K.</i>	
<b>INERTIAL MEASUREMENT UNITS BASED WIRELESS SENSOR NETWORK FOR REAL TIME GAIT ANALYSIS .....</b>	<b>1388</b>
<i>Lihinikaduarachchi, I. ; Rajapaksha, S.A. ; Saumya, C. ; Senevirathne, V. ; Silva, P.</i>	

<b>ASYMMETRICAL FINFET SRAM CELLS WITH WIDER READ NOISE MARGIN AND LOWER LEAKAGE CURRENTS .....</b>	<b>1394</b>
<i>Salahuddin, S.M. ; Kursun, V.</i>	
<b>SKETCH DRAWING BY NAO HUMANOID ROBOT .....</b>	<b>1397</b>
<i>Singh, A.K. ; Chakraborty, P. ; Nandi, G.C.</i>	
<b>CO-CHANNEL INTERFERENCE SUPPRESSION TECHNIQUES FOR STBC OFDM SYSTEM OVER DOUBLY SELECTIVE CHANNEL .....</b>	<b>1403</b>
<i>Patra, J.P. ; Singh, P.</i>	
<b>POWER QUALITY CONDITIONER AND LOAD MANAGEMENT SYSTEM FOR AN INTEGRATED RESIDENTIAL GRID.....</b>	<b>1409</b>
<i>Bharadwaj, R. ; Ramasubramaniam, R. ; Bajaj, T. ; Srinivasan, K.R. ; Meena, P.</i>	
<b>DESIGN AND SIMULATION OF A NOVEL 3D MEMS FABRICATION/MICRO CUTTING FACILITY BY THERMALLY ACTUATED MEMS DEVICE .....</b>	<b>1415</b>
<i>Kashyap, J. ; Nagesh, S. ; Narayan, K. ; Pattnaik, P.K.</i>	
<b>ADAPTIVE USER INTERFACE FOR E-LEARNING APPLICATIONS BASED ON LEARNING STYLES USING WEB LOGS ANALYSIS: A HYBRID CLOUD ARCHITECTURE.....</b>	<b>1419</b>
<i>Kolekar, S. ; Pai, R.M. ; Pai M M, M.</i>	
<b>STOCK MARKET PREDICTION: A BIG DATA APPROACH .....</b>	<b>1425</b>
<i>Attigeri, G.V. ; Pai M M, M. ; Pai, R.M. ; Nayak, A.</i>	
<b>MULTI-FOCUS IMAGE FUSION USING ENERGY OF IMAGE GRADIENT AND GRADUAL BOUNDARY SMOOTHING.....</b>	<b>1430</b>
<i>Kwon Lee ; Ji, S.</i>	
<b>AN APPROACH TO DETECT MALICIOUS NODE FOR DELAY TOLERANT NETWORKS.....</b>	<b>1434</b>
<i>Chandavale, A.A. ; Chaure, T.P.</i>	
<b>CMOS RC OSCILLATOR USING 0.35 MICRON FOR PORTABLE MOSQUITO-REPEL CIRCUIT.....</b>	<b>1440</b>
<i>Cruz, F.R.G. ; Latina, M.A.E. ; Wen-Yaw Chung</i>	
<b>DEVELOPMENT OF A TRANSFORMATION ALGORITHM FOR EMOTIONAL SPEECH SIGNAL USING DWT AND ADAPTIVE FILTER FOR A VOICE CULTURE TRAINING SYSTEM .....</b>	<b>1444</b>
<i>Sathe-Pathak, B. ; Panat, A.</i>	
<b>AN ALL-FACTOR MODULATION BANDWIDTH EXTENSION TECHNIQUE FOR DELTA-SIGMA PLL TRANSMITTER .....</b>	<b>1449</b>
<i>Mo Huang ; Yan Lu ; Xiao-ming Xiong ; Seng-Pan, U. ; Martins, R.P.</i>	
<b>CAPACITIVE FLOATING LEVEL SHIFTER: MODELING AND DESIGN.....</b>	<b>1453</b>
<i>Wen-Ming Zheng ; Chi-Seng Lam ; Sai-Weng Sin ; Yan Lu ; Man-Chung Wong ; Seng-Pan, U. ; Martins, R.P.</i>	
<b>COMPARATIVE SIMULATION STUDY ON MOS2 FET AND FINFET .....</b>	<b>1459</b>
<i>Ming Zhang ; Po-Yen Chien ; Woo, J.C.S.</i>	
<b>TIME-VARYING SHORTEST PATH ALGORITHM WITH TRANSIT TIME TUNING FOR PARKING LOT NAVIGATION.....</b>	<b>1461</b>
<i>Guanqun Wang ; Nakanishi, T. ; Fukuda, A.</i>	
<b>A MATRIX MODEL FOR REDEFINING AND TESTING NOC INTERCONNECT SHORTS .....</b>	<b>1467</b>
<i>Bhowmik, B. ; Deka, J.K. ; Biswas, S.</i>	
<b>AUGMENTED VISUAL INTELLIGENCE .....</b>	<b>1473</b>
<i>Joo-Hwee Lim</i>	
<b>ADAPTIVE LOCAL FEATURE BASED MULTI-SCALE IMAGE HASHING FOR ROBUST TAMPERING DETECTION.....</b>	<b>1479</b>
<i>Cai-Ping Yan ; Chi-Man Pun ; Xiao-Chen Yuan</i>	
<b>A NOVEL IMAGE STEGANOGRAPHIC METHODOLOGY BY POWER MODULUS SCRAMBLING (PMS) WITH LOGISTIC MAPPING .....</b>	<b>1483</b>
<i>Mukherjee, S. ; Ash, S. ; Sanyal, G.</i>	
<b>LOW COMPLEXITY DISTRIBUTED APPROACH TO HYPERSPECTRAL IMAGE COMPRESSION .....</b>	<b>1489</b>
<i>Mamatha, A.S. ; Kusuma, V. ; Singh, V. ; Rajath Kumar, M.P.</i>	
<b>ENERGY-EFFICIENT POWER ALLOCATION FOR OFDM-BASED COGNITIVE RADIO WITH TIMEOUT PROBABILITY CONSTRAINT OF PRIMARY USERS.....</b>	<b>1495</b>
<i>Shuying Zhang ; Zhao, Xiaohui ; Zhihan Liu ; Ling Zhu ; Hangqi Li</i>	
<b>EFFECT ON PULL-IN VOLTAGE AND CURRENT IN NEMFET BY SCALING CHANNEL LENGTH.....</b>	<b>1500</b>
<i>Halder, R. ; Guha, K. ; Baishya, S.</i>	
<b>OPERATIONAL RELIABILITY EVALUATION OF STEPPED CURRENT PROTECTION BASED ON REAL-TIME OPERATIONAL CONDITIONS OF POWER SYSTEM.....</b>	<b>1504</b>
<i>Tao Xuan-xuan ; Wang Yong ; Li Ren-fei ; Sun Guang-tao</i>	

<b>A WOMAN IN ENGINEERING - INCREASING MACAO STUDENTS' INTEREST IN SCIENCE AND TECHNOLOGY</b> .....	1509
<i>Sut-Ian Ho ; Chi-Seng Lam ; Man-Chung Wong</i>	
<b>A NEW LEVEL SET MODEL FOR UNIFIED MEDICAL IMAGE SEGMENTATION</b> .....	1513
<i>Xiang Shan ; Bing Nan Li</i>	
<b>NUMERICAL SIMULATION OF STRETCHING FOREHEAD WRINKLES WITH AN UNIFORMLY DISTRIBUTED PRESSURE</b> .....	1517
<i>Yu Yunlei ; Ping Zhou ; Shuo Huang ; Qiang Chen</i>	
<b>EXPLOITING SYMMETRY OF DISCRETE-EVENT SYSTEMS WITH PARALLEL COMPONENTS BY RELABELING</b> .....	1522
<i>Ting Jiao ; Yongmei Gan ; Xu Yang ; Wonham, W.M.</i>	
<b>A NOVEL SEPARATE GATE INALAS/INGAAS/INALAS DG-HEMT HETEROGENEOUS MIXER</b> .....	1526
<i>Parveen ; Verma, N. ; Bhattacharya, M. ; Jogi, J.</i>	
<b>A INTERLEAVED THREE-LEVEL HALF-BRIDGE ZVZCS DC-DC CONVERTER USING PHASE-SHIFTED PULSE-WIDTH MODULATION</b> .....	1530
<i>Meesrisuk, W. ; Jangwanitert, A.</i>	
<b>AN ADAPTIVE NEURO-FUZZY CONTROLLER FOR MAXIMUM POWER POINT TRACKING OF PHOTOVOLTAIC SYSTEMS</b> .....	1535
<i>Mahdavi, M. ; Li Li ; Jianguo Zhu ; Mekhilef, S.</i>	
<b>DETECTION OF RETINAL WHITENING, COTTON WOOL SPOTS AND RETINAL HEMORRHAGES FOR DIAGNOSIS OF MALARIAL RETINOPATHY</b> .....	1541
<i>Ashraf, A. ; Akram, M.U. ; Sheikh, S.A.</i>	
<b>A SIDO BUCK CONVERTER WITH A LOAD DEPENDENT CONTROLLER TO MINIMIZE CROSS-REGULATION</b> .....	1545
<i>Chao-Chun Chen ; Chung-Hsun Huang ; Jia-En Chen</i>	
<b>IMPULSE NOISE REMOVAL BASED ON SVM CLASSIFICATION</b> .....	1550
<i>Roy, A. ; Laskar, R.H.</i>	
<b>A DENSITY-BASED APPROACH FOR MINING MOVEMENT PATTERNS FROM SEMANTIC TRAJECTORIES</b> .....	1555
<i>Renhe Jiang ; Jing Zhao ; Tingting Dong ; Ishikawa, Y. ; Chuan Xiao ; Sasaki, Y.</i>	
<b>RESEARCH ON TOPOLOGY AND CONTROL OF DC ENERGY-STORAGELESS DYNAMIC VOLTAGE RESTORER</b> .....	1561
<i>Jin Nan ; Kang Dong-yi ; Cui Guang-zhao</i>	
<b>A PERFORMANCE ENHANCED ADAPTIVE ROUTING ALGORITHM FOR 3D NETWORK-ON-CHIPS</b> .....	1565
<i>Lian Zeng ; Tiejuan Pan ; Xin Jiang ; Watanabe, T.</i>	
<b>ANALYSIS OF STRUCTURE OF INTELLIGENT PARK MULTI-LEVEL ENERGY TRANSFER MODEL</b> .....	1569
<i>Liu Hong ; Zhao Hong-lei ; Cui Wen-ting ; Yu Jian-cheng ; Zhang Shi-yu ; Wang Bo</i>	
<b>AN INTERACTIVE LOAD MODELING BASED ON DECISION-MAKING METHOD</b> .....	1575
<i>Xiaohui Jiang ; Zhenshu Wang ; Yangyang Ma</i>	
<b>PERFORMANCE STUDIES ON <math>Ge_1Sb_2Te_4</math> THIN FILM DEVICES</b> .....	1580
<i>Sangeetha, B.G. ; Joseph, C.M. ; Suresh, K.</i>	
<b>PERFORMANCE ANALYSIS AND IMPROVEMENT OF NANOSCALE DOUBLE GATE JUNCTIONLESS TRANSISTOR BASED INVERTER USING HIGH-K GATE DIELECTRICS</b> .....	1584
<i>Baidya, A. ; Lenka, T.R. ; Baishya, S.</i>	
<b>ELECTRICAL BISTABILITY STUDIES ON <math>Ge_1Sb_2Te_4</math> THIN FILM DEVICES</b> .....	1588
<i>Sangeetha, B.G. ; Joseph, C.M. ; Suresh, K.</i>	
<b>SCHEDULING OF FORK-JOIN TASKS ON MULTI-CORE PROCESSORS TO AVOID COMMUNICATION CONFLICT</b> .....	1592
<i>Liu Yuan ; Pingui Jia ; Yiping Yang</i>	
<b>PRE-STUDY OF GREY PREDICTION CONTROL FOR EAST VERTICAL DISPLACEMENT CONTROL POWER SUPPLY</b> .....	1598
<i>Yue-meng Chang ; Hai-xin Wang ; Hai-hong Huang</i>	
<b>STUDY ON AGING OF MATERIAL FOR GIS SEALING RING</b> .....	1602
<i>Ronghui Huang ; Xin Zhang ; Qiaodi Zeng ; Wei Tao ; Zhaofang Zhu ; Yongpeng Meng ; Xiaohua Wang ; Shengjun Lin</i>	
<b>RESEARCH AND SYSTEM DEVELOPMENT OF DISTRIBUTED POWER "PLUG AND PLAY"</b> .....	1606
<i>Zhang Shi-yu ; Zhuang Jian ; Liu Hong ; Liu Jian-yu ; Cui Wenting ; Wangbo</i>	

<b>VOLTAGE DROOP AWARE TASK MAPPING FOR MULTI-CORE SYSTEMS WITH ON-CHIP VOLTAGE REGULATOR.....</b>	1611
<i>Wing Oi Siu ; Chak Sing Ng ; Mak, T.</i>	
<b>CONSENSUS-BASED DISTRIBUTED DROOP CONTROL OF ISOLATED MICRO-GRIDS BY ALTERNATING DIRECTION MULTIPLIERS METHODS.....</b>	1617
<i>Lin-Yu Lu ; Chia-Chi Chu</i>	
<b>COMPUTATIONAL ACTIVE PHOTONICS.....</b>	1622
<i>Png, C.E. ; Khoo, E.H. ; Lim, S.T.</i>	
<b>IMPEDANCE MEASUREMENT FOR GROUNDING GRIDS OF ULTRA-HIGH-VOLTAGE HUXI SUBSTATION .....</b>	1628
<i>Fu Chenzhao ; Su Lei ; Lu Qiyu ; Si Wenrong ; Xu Zhibing</i>	
<b>IDENTIFICATION OF PQ DISTURBANCES AND DEGREE OF LOADING IN INDUCTION MOTOR USING NEURO-WAVELETS .....</b>	1632
<i>Sridhar, S. ; Rao, K.U. ; Jade, S.</i>	
<b>NONLINEAR SPLINE ADAPTIVE FILTERING UNDER MAXIMUM CORRENTROPY CRITERION .....</b>	1636
<i>Siyuan Peng ; Zongze Wu ; Xie Zhang ; Badong Chen</i>	
<b>GENERALIZED TYPE III CONTROLLER DESIGN INTERFACE FOR DC-DC CONVERTERS.....</b>	1641
<i>Ka-Fai Chan ; Chi-Seng Lam ; Wen-Liang Zeng ; Wen-Ming Zheng ; Sai-Weng Sin ; Man-Chung Wong</i>	
<b>LCD POWER REDUCTION WITH PARAMETERS FROM SERVER PUSHING.....</b>	1647
<i>Zhiheng Zhou ; Jianghui Tan ; Yanshu Zhuang ; Kaiyi Liu ; Youjun Xiang</i>	
<b>INVESTIGATING RUNNING GAIT USING A SHOE-INTEGRATED WIRELESS INERTIAL SENSOR .....</b>	1651
<i>Di-Kiat Chew ; Gouwanda, D. ; Gopalai, A.A.</i>	
<b>A SCALABLE HIGH-THROUGHPUT PIPELINE ARCHITECTURE FOR DNA SEQUENCE ALIGNMENT .....</b>	1657
<i>Ghosh, S. ; Mandal, S. ; Saha Ray, S.</i>	
<b>A RESEARCH OF HVDC TRANSMISSION SYSTEM RELIABILITY BASED ON THE TIME DEPENDENT UNIVERSAL GENERATING FUNCTION METHOD .....</b>	1663
<i>Li Feng ; Wang Hui ; Wang Yaling</i>	
<b>PSS TUNING WITH FIREFLY DRIVEN KNOWLEDGE DOMAIN-A SMART CONTROL CONCEPT.....</b>	1667
<i>Pandey, R.K. ; Gupta, D.K.</i>	
<b>COMPARISON AMONG PPF, APF, HAPF AND A COMBINED SYSTEM OF A SHUNT HAPF AND A SHUNT THYRISTOR CONTROLLED LC.....</b>	1673
<i>Sut-Ian Ho ; Chi-Seng Lam ; Man-Chung Wong</i>	
<b>MICROWAVE NEAR-FIELD NONINVASIVE PREDICTION OF COMPRESSIVE STRENGTH OF ENGINEERED CEMENTITIOUS COMPOSITES (ECCS) .....</b>	1679
<i>Chung, K.L. ; Chunwei Zhang ; Kharkovsky, S.</i>	
<b>A WIRELESS, SMART EEG SYSTEM FOR VOLITIONAL CONTROL OF LOWER-LIMB PROSTHESIS .....</b>	1683
<i>Ou Bai ; Kelly, G. ; Ding-Yu Fei ; Murphy, D. ; Fox, J. ; Burkhardt, B. ; Lovegreen, W. ; Soars, J.</i>	
<b>SENSITIVITY DISTORTION OF SPLIT-DRAIN MAGFET UNDER ALTERNATING MAGNETIC FIELD.....</b>	1689
<i>Sik-Lam Siu ; Wing-Shan Tam ; Chi-Wah Kok ; Shuk-Fun Lai ; Pong, P.W.T. ; Hei Wong</i>	
<b>QUIESCENT CURRENT CONTROL FOR LOW DISTORTION LINEAR POWER AMPLIFIER .....</b>	1692
<i>Shuk-Fun Lai ; Wing-Shan Tam ; Chi-Wah Kok ; Lai-Ting Ng ; Hei Wong</i>	
<b>CLOUD COMPUTING SECURITY RISKS WITH AUTHORIZATION ACCESS FOR SECURE MULTI-TENANCY BASED ON AAAS PROTOCOL .....</b>	1695
<i>Abd, S.K. ; Salih, R.T. ; Al-Haddad, S.A.R. ; Hashim, F. ; Abdullah, A.B.H.J. ; Yussof, S.</i>	
<b>ANALYSIS ON THE TRANSIENT OF A SELF-MIXING INTERFEROMETRY SENSING SYSTEM.....</b>	1700
<i>Yuanlong Fan ; Bin Liu ; Yanguang Yu ; Jiangtao Xi ; Qinghua Guo ; Jun Tong</i>	
<b>DOWNLINK OUTAGE PROBABILITY ANALYSIS IN TWO-HOP RELAY-ASSISTED CELLULAR NETWORK .....</b>	1703
<i>Katla, R. ; Babu, A.V.</i>	
<b>SUB-SAMPLED IFFT BASED COMPRESSIVE SAMPLING .....</b>	1709
<i>Liang Zhongyin ; Huang Jianjun ; Huang Jingxiang</i>	
<b>NOVEL REMANENCE DETECTION FOR POWER TRANSFORMERS BASED ON MODIFIED J-A MODEL.....</b>	1713
<i>Jiangtao Li ; Zheng Li ; Tao Li ; Yue Gu ; Weihua Jiang ; Minjun Zheng</i>	

<b>A NEW HIGH EFFICIENCY BOOST LED DRIVER CIRCUIT FOR EDGE-LIT LED BACKLIGHT UNITS .....</b>	<b>1716</b>
<i>Jae-Jung Yun ; Hyung-Jin Choe ; Cheewoo Lee</i>	
<b>LOW-FREQUENCY DEMAGNETIZATION FOR POWER TRANSFORMERS BASED ON MODIFIED J-A MODEL .....</b>	<b>1719</b>
<i>Jiangtao Li ; Zheng Li ; Tao Li ; Yue Gu ; Weihua Jiang ; Minjun Zheng</i>	
<b>FPGA IMPLEMENTATION OF HIGH SPEED SCALAR MULTIPLICATION FOR ECC IN GF(P).....</b>	<b>1722</b>
<i>Shylashree, N. ; Sridhar, V.</i>	
<b>EFFICIENT VIDEO TRANSFER USING LAN CACHING ASSISTED BY CLOUD COMPUTING .....</b>	<b>1728</b>
<i>Kiran S, V. ; Raghuram, S. ; Thriveni, J. ; Venugopal, K.R.</i>	
<b>PERFORMANCE ANALYSIS OF 3D FLEXURE FET WITH MEANDERING GATE FOR HIGHER SENSITIVITY .....</b>	<b>1733</b>
<i>Chakrabarty, P. ; Guha, K. ; Baishya, S.</i>	
<b>PERFORMANCE ANALYSIS OF SOLAR PV-DIESEL BASED AUTONOMOUS HYBRID POWER SYSTEM USING FFA AND CSA OPTIMIZED CONTROLLER.....</b>	<b>1738</b>
<i>Das, D.C. ; Sharma, A. ; Dema, D. ; Modi, A.</i>	
<b>TRI-BAND MATCHING TECHNIQUE BASED ON CHARACTERISTIC IMPEDANCE TRANSFORMERS FOR CONCURRENT TRI-BAND POWER AMPLIFIERS DESIGN.....</b>	<b>1744</b>
<i>Zhebin Hu ; Chaoyi Huang ; Songbai He ; Fei You</i>	
<b>EVALUATION OF CONTROLLED ISLANDING STRATEGY BASED ON POWER-FREQUENCY SENSITIVITY .....</b>	<b>1747</b>
<i>Jingli Liu ; Lei Ding ; Yong Lin ; Lei Wang ; Tongxiao Wang ; Shanyao Yin</i>	
<b>STUDY ON IMPULSE CHARACTERISTICS OF 35KV SUBSTATION GROUNDING GRIDS.....</b>	<b>1752</b>
<i>Si Wenrong ; Fu Chenzhao ; Su Lei ; Zhu Dakang ; Xu Zhibing</i>	
<b>STUDY ON WIND POWER CONSUMPTION BASED ON DEMAND RESPONSE.....</b>	<b>1756</b>
<i>Wang Yan ; Shi Jinwei ; Wen Xiaoqiang ; Wang Kai</i>	
<b>DEVELOPMENT OF NORMATIVE HUMAN GAIT KINEMATICS AND KINETICS DATABASE FOR MALAYSIAN UNIVERSITY STUDENTS.....</b>	<b>1761</b>
<i>Chong Yu Zheng ; Lau Yee Chuan ; Teh Chun Sien ; Yunus, J.</i>	
<b>EFFECTS OF INDUCTIVE COIL TURNS ON VOLTAGE GENERATION FROM LOW FREQUENCY VIBRATIONS.....</b>	<b>1765</b>
<i>Chonlatee Photong</i>	
<b>MAXIMUM LIFETIME ROUTING IN UNDERWATER SENSOR NETWORKS USING MOBILE SINK FOR DELAY-TOLERANT APPLICATIONS.....</b>	<b>1769</b>
<i>Kartha, J.J. ; Jabbar, A. ; Baburaj, A. ; Jacob, L.</i>	
<b>A PORTABLE SWITCHING BI-PHASIC STIMULATOR WITH LEVEL-SHIFTING INVERTER FOR FUNCTIONAL ELECTRICAL STIMULATION OPERATING UNDER A 6V SUPPLY VOLTAGE.....</b>	<b>1775</b>
<i>Tamtrakarn, A.</i>	
<b>SPATIO-TEMPORAL ANALYSIS OF SPONTANEOUS LOW FREQUENCY OSCILLATIONS TO SINGLE WHISKER STIMULATION IN RAT CEREBRAL CORTEX.....</b>	<b>1779</b>
<i>Guoliang Han ; Liangming Huang ; Ming Li ; Yadong Liu ; Lihua He ; Dewen Hu</i>	
<b>INVESTIGATION OF DIFFERENT MCS SELECTION ALGORITHM TO REDUCE THE IMPACT OF CSI-RS ON LTE LEGACY UES.....</b>	<b>1784</b>
<i>Xiaofei Zhao ; Xinyu Gu ; Xiang Zhang ; Yi Gong ; Lin Zhang ; Wenyu Li</i>	
<b>MODELING AND SIMULATIONS OF THE LOW-VOLTAGE DISTRIBUTION SYSTEM INTEGRATED WITH ENERGY STORAGE SYSTEMS IN KINMEN ISLAND.....</b>	<b>1790</b>
<i>Liu, Y.J. ; Chang, G.W. ; Hsu, L.Y. ; Jen, K.K. ; Chung, C.S. ; Chen, J.H.</i>	
<b>VERTICAL-MESH-CONSCIOUS-DYNAMIC ROUTING ALGORITHM FOR 3D NOCS.....</b>	<b>1795</b>
<i>Xiangyang Lei ; Xin Jiang ; Lian Zeng ; Watanabe, T.</i>	
<b>DROOP-BOOST CONTROL FOR SINGLE-PHASE HYBRID POWER FILTER.....</b>	<b>1801</b>
<i>Jing-Jing Sheng ; NingYi Dai ; Man-Chung Wong ; Chi-Seng Lam ; KengWeng Lao</i>	
<b>INVESTIGATION OF CRITICAL BARRIER THICKNESS IN LATTICE MATCHED INALN/GAN MOSHEMT TOWARDS NORMALLY-OFF OPERATION .....</b>	<b>1807</b>
<i>Swain, R. ; Lenka, T.R.</i>	
<b>EFFICIENT SCHEDULING OF DAG TASKS ON MULTI-CORE PROCESSOR BASED PARALLEL SYSTEMS.....</b>	<b>1811</b>
<i>Liu Yuan ; Pingui Jia ; Yiping Yang</i>	
<b>LOGIC ARCHITECTURE FOR 2-SELECT ARBITER USING DUEL POINTER.....</b>	<b>1817</b>
<i>Kalpande, M.D. ; Vyas, V.</i>	

<b>GUARANTEED V2V QOS SERVICES IMPLEMENTATION AND FIELD MEASUREMENTS IN HYBRID WAVELENGTH ENVIRONMENTS .....</b>	<b>1822</b>
<i>Zhen Meng ; Zishan Liu ; Xinyu Gu ; Lin Pu ; Xinyang Yang ; Zhen Qin ; Konglin Zhu ; Lin Zhang</i>	
<b>DICTIONARY-LEARNING-BASED POST-FILTER FOR HMM-BASED SPEECH SYNTHESIS .....</b>	<b>1828</b>
<i>Narayanamurthy, P.K. ; Seelamantula, C.S.</i>	
<b>SPIN MODEL CHECKING FOR THE BEE SYSTEM .....</b>	<b>1833</b>
<i>Yamada, C. ; Ganti, S. ; Miller, D.M.</i>	
<b>RELATIVE DENSITY BASED ANTI-COLLISION ALGORITHM IN RFID NETWORKS WITH DENSE READERS .....</b>	<b>1839</b>
<i>Minghua Xia ; Qilin Yu ; Zhonghua Li</i>	
<b>SPARSITY BASED IMAGE INPAINTING USING OPTIMISATION TECHNIQUES .....</b>	<b>1844</b>
<i>Desai, K.B. ; Bombaywala, S.R. ; Paunwala, C.N.</i>	
<b>A PLANAR UWV ANTENNA DESIGN WITH TRIPLE BAND-NOTCHES FOR WIMAX, WLAN AND DOWNLINK OF X-BAND SATELLITE COMMUNICATIONS SYSTEM.....</b>	<b>1850</b>
<i>Krishna, D.D. ; Mathew, T.</i>	
<b>AN ACTIVE BALANCING CIRCUIT FOR LITHIUM BATTERY MANAGEMENT SYSTEM WITH OPTOELECTRONIC SWITCHES.....</b>	<b>1854</b>
<i>Feng Ran ; Hao Xu ; Yuan Ji ; Jiaqi Qin ; Wenhui Li</i>	
<b>STATE ESTIMATION FOR NONLINEAR SYSTEMS WITH UNKNOWN INPUTS USING SDC FACTORIZATION .....</b>	<b>1859</b>
<i>Chien-Shu Hsieh</i>	
<b>STOCHASTIC RESONANCE FOR ENHANCING SENSORY PERCEPTION: AN EMERGING TREND FOR ADL REHABILITATION .....</b>	<b>1865</b>
<i>Gopalai, A.A. ; Boon Leong Lan ; Gowanda, D.</i>	
<b>ADAPTIVE BEAMFORMING BASED ON NONUNIFORM LINEAR ARRAYS WITH ENHANCED DEGREES OF FREEDOM.....</b>	<b>1870</b>
<i>Lei Yu ; Yinsheng Wei ; Wei Liu</i>	
<b>ENHANCED ONE-BIT TRANSFORM FOR SINGLE-FRAME SMALL TARGET DETECTION.....</b>	<b>1875</b>
<i>Zhikun Lei ; Renfu Li</i>	
<b>HYBRID MODULATION TECHNIQUE FOR NEUTRAL POINT CLAMPED INVERTER TO ELIMINATE NEUTRAL POINT SHIFT WITH MINIMUM SWITCHING LOSS .....</b>	<b>1880</b>
<i>Raju, K.N. ; Rao, M.V.G. ; Ramamoorthy, M.</i>	
<b>AUTO-DETECTION OF ANISAKID LARVAE IN COD FILLETS BY UV FLUORESCENT IMAGING WITH OS-ELM .....</b>	<b>1885</b>
<i>Wenqiang Cai ; Limin Cao ; Hong Lin ; Jianxin Sui ; Rui Nian ; Jidong Hu ; Lendasse, A.</i>	
<b>A NEW 5-LEVEL TRANSISTOR CLAMPED H-BRIDGE TOPOLOGY FOR DVR WITH REPETITIVE CONTROLLER .....</b>	<b>1890</b>
<i>Satputaley, R.J. ; Borghate, V. ; Anusha, Y.</i>	
<b>A NEW FRAMEWORK TO EXTRACT HEART RATE INFORMATION FROM PHOTOPLETHYSMOGRAPHIC (PPG) SIGNALS WITH STRONG MOTION ARTIFACTS .....</b>	<b>1896</b>
<i>Zi-Hao Zhang ; Jian Liu ; Xiao-Yue Wu ; Chao-Ying Wang ; Ran Yang</i>	
<b>A LOG-FUNCTION POWER-CONSTRAINED ALGORITHM FOR OLED DISPLAYS .....</b>	<b>1900</b>
<i>Kaiyi Liu ; Zhiheng Zhou ; Yanshu Zhuang ; Ming Dai ; Peijiang Kuang</i>	
<b>TRANSIENT STABILITY ASSESSMENT OF POWER SYSTEM INCORPORATING WIND POWER USING QUASI-MONTE CARLO METHOD.....</b>	<b>1905</b>
<i>Shengkun Chen ; Libao Shi ; Liangzhong Yao ; Yan Li ; Bo Yang</i>	
<b>LOCATING AND SIZING ENERGY STORAGE SYSTEMS FOR DISTRIBUTION FEEDER EXPANSION PLANNING.....</b>	<b>1909</b>
<i>MacRae, C. ; Ozlen, M. ; Ernst, A. ; Behrens, S.</i>	
<b>A SOLUTION OF STATIC VOLTAGE STABILITY ASSESSMENT BASED ON PQ PLANE ANALYSIS INCORPORATING LOAD UNCERTAINTY.....</b>	<b>1915</b>
<i>Hao Chen ; Libao Shi ; Yuzhang Lin ; Liangzhong Yao ; Bo Yang ; Yan Li</i>	
<b>A MODIFIED PBKDF2-BASED MAC SCHEME XKDF .....</b>	<b>1920</b>
<i>Xiurong Chen ; Xiaochao Li ; Yihui Chen ; Pengtao Li ; Jianli Xing ; Lin Li</i>	
<b>LITTLEL6 - SMALL SCALE 16-BIT CONTROLLER ARCHITECTURE FOR FPGA SYSTEMS FLOW CONTROL.....</b>	<b>1926</b>
<i>Wong Kin Hin ; Choy Chiu-Sing ; Oliver</i>	
<b>INDUCED SHEATH VOLTAGE IN DOUBLE CIRCUIT .....</b>	<b>1930</b>
<i>Shaban, M. ; Salam, M.A. ; Ang, S.P. ; Poullose, M.M. ; Voon, W.</i>	
<b>EFFECT OF PREPARATION PROCESS ON TENSILE STRENGTH OF NANO-HYDROXYAPATITE/POLYETHERETHERKETONE COMPOSITE MATERIALS .....</b>	<b>1936</b>
<i>Lin Wang ; Chunbao Wang ; Jian Qin ; Zhengzhi Wu ; Shenhua Song</i>	

<b>A NOVEL NORMALIZATION METHOD FOR IMPROVING THE SENSING PERFORMANCE OF A SELF-MIXING INTERFEROMETRY</b> .....	1939
<i>Zhenghao Liu ; Bin Liu ; Yuanlong Fan ; Yanguang Yu ; Jiangtao Xi ; Qinghua Guo ; Ke Lin</i>	
<b>FRAGMENTATION AWARE ROUTING AND SPECTRUM ASSIGNMENT ALGORITHM FOR ELASTIC OPTICAL NETWORKS</b> .....	1943
<i>Jianhua Shen ; Jian Chen ; Ye Sun</i>	
<b>ON THE COMPLEXITY OF IMPLEMENTATION OF RECURSION ON FACTORIAL AND FIBONACCI ALGORITHMS USING RISC-BASED MIPS64 INSTRUCTION SET ARCHITECTURE</b> .....	1947
<i>Uy, R.L. ; Marcos, N.</i>	
<b>ROBUST DIAGNOSIS OF POWER SYSTEM FAILURES USING DISCRETE EVENT SYSTEM APPROACH</b> .....	1953
<i>Reshmila, S. ; Devanathan, R.</i>	
<b>DETECTION FOR POWER GRID HARMONICS BASED ON THEORY OF MODIFIED QUASI RESONANT FILTER</b> .....	1959
<i>Yu-Xi Xie ; Ying-Chuan Qi ; Ya-Ju Li</i>	
<b>RADIO RESOURCE MANAGEMENT FOR MOVING SMALL-CELLS WITH PROACTIVE CONTENT CACHE</b> .....	1965
<i>Young Min Kwon ; Sung-Min Oh ; JaeSheung Shin ; Min Young Chung</i>	
<b>LINEAR FREQUENCY MODULATION - CONTINUOUS WAVE (LFM - CW) RADAR IMPLEMENTATION USING GNU RADIO AND USRP</b> .....	1969
<i>Saputera, Y.P. ; Wahab, M. ; Wahyu, Y.</i>	
<b>DEVELOPMENT OF PHASE INVERTER FOR PERFORMANCE IMPROVEMENT OF FM-CW RADAR</b> .....	1974
<i>Wahab, M. ; Saputera, Y.P. ; Wahyu, Y.</i>	
<b>DESIGN OF MINIMUM COMPLEXITY REVERSIBLE MULTIPLIER</b> .....	1979
<i>Moshnyaga, V.G.</i>	
<b>DETECTING MULTIPLE USERIDS ON KOREAN SOCIAL MEDIA FOR MINING TV AUDIENCE RESPONSE</b> .....	1983
<i>Kyounghun Kim ; Yunseok Noh ; Seong-Bae Park</i>	
<b>DESIGN REQUIREMENTS OF EXPERIMENT SET-UP FOR SELF-MIXING-BASED YOUNG'S MODULUS MEASUREMENT SYSTEM</b> .....	1987
<i>Ke Lin ; Yanguang Yu ; Jiangtao Xi ; Huijun Li</i>	
<b>IMPROVED MILLER CAPACITANCE OF NEW HETEROSTRUCTURE SILICON-ON-INSULATOR TUNNEL FET</b> .....	1992
<i>Chander, S. ; Das, R. ; Baishya, S.</i>	
<b>FAULT DETECTION AND RECOVERY OF CLUSTER HEADS IN MOBILE WIRELESS SENSOR NETWORKS</b> .....	1996
<i>Paranjape, S. ; Sutaone, M. ; Mukherji, P.</i>	
<b>ANALYTIC MODELING OF VM FAILURE AND REPAIR IN CLOUD DATACENTER</b> .....	2001
<i>Sobhanayak, S. ; Turuk, A.K. ; Sahoo, B.</i>	
<b>EXPERIMENTAL DETECTION PERFORMANCE OF CYCLOSTATIONARITY-BASED SPECTRUM SENSING</b> .....	2007
<i>Bating, C.B. ; Marciano, J.S.</i>	
<b>COMPARISON OF MODEL REFERENCE ADAPTIVE CONTROL AND SLIDING MODE CONTROL FOR MULTI-DRUG INFUSION TO REGULATE HEMODYNAIC VARIABLES</b> .....	2013
<i>Prabha, K.S. ; Joseph K, P.</i>	
<b>TOWARDS BUILDING A PREDICTIVE MODEL FOR REMOTE RIVER QUALITY MONITORING FOR MINING SITES</b> .....	2019
<i>Estuar, M.R.J.E. ; Oppus, C. ; Espiritu, E.Q. ; Coronel, A.D. ; Enriquez, E. ; Guico, M.L. ; Claro Monje, J.</i>	
<b>IMPROVING EFFICIENCY OF RECOMMENDER SYSTEMS</b> .....	2024
<i>Chih-Lun Liao ; Yu-Chun Lin ; Shing-Tai Pan ; Shie-Jue Lee</i>	
<b>CDBA BASED SINGLE INPUT CURRENT MODE UNIVERSAL FILTER AND UNITY GAIN AMPLIFIER</b> .....	2028
<i>Talha, M. ; Altaf, T. ; Bano, S.</i>	
<b>SCHEME OF SIMULTANEOUS AC-DC POWER TRANSMISSION IN MEDIUM VOLTAGE DISTRIBUTION NETWORK</b> .....	2032
<i>XinXing Xu ; NengLing Tai</i>	
<b>A CONSUMER FRIENDLY FRAMEWORK FOR SMART GRID INITIATIVES</b> .....	2038
<i>Yesudas, R.</i>	

<b>ENERGY-EFFICIENT SUB-DAC MERGING WITH CHARGE-SHARING SWITCHING SCHEME FOR SAR ADC .....</b>	<b>2043</b>
<i>Yunfeng Hu ; Bin Li ; Zhaohui Wu</i>	
<b>EFFECTIVENESS OF FLICKERING VIDEO CLIPS AS STIMULI FOR SSVEP-BASED BCIS.....</b>	<b>2047</b>
<i>Benzheng Li</i>	
<b>DESIGN OF CATHODE RAY TUBE ANALYZER &amp; REJUVENATOR FOR CRT AND CRO.....</b>	<b>2051</b>
<i>Adji, R.P.H. ; Ismail, S.</i>	
<b>COMPARISON OF OPTIMUM DESIGN OF ASYMMETRIC PARALLEL CASCADE MICRORING RESONATOR TO DOUBLE RING RESONATOR.....</b>	<b>2056</b>
<i>Mahmudin, D. ; Estu, T.T. ; Fathnan, A.A. ; Daud, P. ; Wijayanto, Y.N. ; Wijayanto, Y.N.</i>	
<b>EXPLORATION OF VOWEL ONSET AND OFFSET POINTS FOR HYBRID SPEECH SEGMENTATION .....</b>	<b>2059</b>
<i>Sarma, B.D. ; Sharma, B. ; Shanmugam, S.A. ; Mahadeva Prasanna, S.R. ; Murthy, H.A.</i>	
<b>THE OVERALL TREND OF FEMALE ENGINEERS IN THAILAND .....</b>	<b>2065</b>
<i>Gosumbonggot, J.</i>	
<b>A NOVEL APPROACH TO ENLIGHTEN THE EFFECT OF NEIGHBOR FACES DURING ATTENDING A FACE IN THE CROWD .....</b>	<b>2068</b>
<i>Kumar, R.K. ; Garain, J. ; Kisku, D.R. ; Sanyal, G.</i>	
<b>OUTDOOR RF SPECTRAL SURVEY: A ROADMAP FOR AMBIENT RF ENERGY HARVESTING .....</b>	<b>2072</b>
<i>Andrenko, A.S. ; Xianyang Lin ; Miaowang Zeng</i>	
<b>A NEW COOPERATIVE MAC PROTOCOL FOR THE DISTRIBUTED WIRELESS NETWORKS.....</b>	<b>2076</b>
<i>Shah, A.F.M.Shahen ; Alam, Mohammad Shah ; Showkat, Shamim Ara</i>	
<b>INVERSE MUSCLE GROUP ACTIVITY ESTIMATION BASED ON NEUROMUSCULOSKELETAL SYSTEM MODEL .....</b>	<b>2082</b>
<i>Hyungeun Song ; Hori, Y.</i>	
<b>DESIGN OF HUMAN MOTION DETECTION BASED ON THE HUMAN BODY COMMUNICATION .....</b>	<b>2087</b>
<i>Yueming Gao ; Linlin Zhang ; Min Du ; Vai, M.I.</i>	
<b>GENERALIZED RFID CONTROL USING POSTURE EFFECT ON TAG DETECTION FOR VISION IMPAIRED .....</b>	<b>2091</b>
<i>Chun-In Ip ; Wen-Hai Zhang ; Kam-Weng Tam ; Fung Oi Lam ; Huizheng Bu</i>	
<b>ENERGY EFFICIENT WIRELESS NETWORKED BUILDING AUTOMATION SYSTEM CONTROLLED BY REAL OCCUPANCY .....</b>	<b>2095</b>
<i>Reena, K.E.M. ; Mathew, A.T. ; Jacob, L.</i>	
<b>OPTIMIZATION OF GENERATOR REACTIVE POWER DISPATCH IN RESTRUCTURED POWER SYSTEMS.....</b>	<b>2101</b>
<i>Gumera-Toque, V.J. ; Nerves, A.C.</i>	
<b>MULTIPLE-EVENT-TRANSIENT SOFT-ERROR GATE-LEVEL SIMULATOR FOR HARSH RADIATION ENVIRONMENTS .....</b>	<b>2106</b>
<i>Mochizuki, A. ; Onizawa, N. ; Tamakoshi, A. ; Hanyu, T.</i>	
<b>FINITE ELEMENT ANALYSIS OF SILICON GATE ALL AROUND NANOWIRE TRANSISTOR WITH DIFFERENT HIGH-K DIELECTRICS.....</b>	<b>2112</b>
<i>Chatterjee, N. ; Chopra, K. ; Bhatia, K. ; Pandey, S.</i>	
<b>SPARSE REPRESENTATION BASED IMAGE SUPER RESOLUTION RECONSTRUCTION .....</b>	<b>2117</b>
<i>Nayak, R. ; Patra, D. ; Harshavardhan, S.</i>	
<b>IMPROVED HANNING WINDOW BASED INTERPOLATED FFT FOR POWER HARMONIC ANALYSIS .....</b>	<b>2123</b>
<i>Chintakindi, S.R. ; Varaprasad, O.V.S.R. ; Siva Sarma, D.V.S.S.</i>	
<b>HARDWARE ARCHITECTURE OF TIME DOMAIN LTE BASEBAND SIGNAL PROCESSOR .....</b>	<b>2128</b>
<i>Adiono, T. ; Satria, F.M. ; Ahmadi, N. ; Soewito, F.</i>	
<b>AUTOMATIC ASSESSMENT OF ARTICULATION ERRORS IN HINDI SPEECH AT PHONE LEVEL .....</b>	<b>2134</b>
<i>Bhat, C. ; Vachhani, B. ; Kopparapu, S.</i>	
<b>DYNAMIC ANALYSIS OF A TWO-INPUT ZETA CONVERTER TOPOLOGY FOR MODULAR HYBRID PV-WIND MICROGRID SYSTEM.....</b>	<b>2138</b>
<i>Salenga, J.S. ; Magsino, E.R.</i>	
<b>EPILEPSY AND SEIZURE DETECTION USING STATISTICAL FEATURES IN THE COMPLETE ENSEMBLE EMPIRICAL MODE DECOMPOSITION DOMAIN .....</b>	<b>2144</b>
<i>Hassan, A.R. ; Haque, M.A.</i>	
<b>STUDY ON POLLUTION ACCUMULATION CHARACTERISTICS OF TYPICAL INSULATORS .....</b>	<b>2150</b>
<i>Chunhui Gu ; Jiangtao Li ; Tao Li</i>	

<b>THE IMPLEMENTATION OF CROSS-CORRELATION PHASE COUNTING METHOD FOR DIGITAL FREQUENCY DOMAIN FLUORESCENCE LIFETIME IMAGING MICROSCOPY ON FPGA</b> .....	2154
<i>Bao Ning Zhang ; Vai, M.I.</i>	
<b>TOWARD IMPACT ANALYSIS FOR UNCERTAIN SOFTWARE PROJECT</b> .....	2158
<i>Hisazumi, K. ; Yamasaki, T. ; Fukuda, A.</i>	
<b>CORDIC-BASED DIGITAL SOUND SYNTHESIZER</b> .....	2160
<i>Kusumah, R. ; Cahyadi, D. ; Kumara, G. ; Adiono, T.</i>	
<b>DESIGN AND IMPLEMENTATION OF SAR ADC FOR TIME-TO-DIGITAL CONVERTER APPLICATION</b> .....	2166
<i>Cahyadi, D. ; Kusumah, R. ; Kumara, G. ; Salman, A.H. ; Mas'ud, A.F.</i>	
<b>IOBR: INTEROPERABLE BEE-HIVE ROUTING IN A HETEROGENEOUS MULTI-RADIO NETWORK</b> .....	2171
<i>Vaishnavi, K. ; Kiran, K. ; Shenoy, P.D. ; Venugopal, K.R.</i>	
<b>A COMPARATIVE STUDY OF CLASSIFICATION ALGORITHMS FOR RISK PREDICTION IN PREGNANCY</b> .....	2176
<i>Lakshmi, B.N. ; Indumathi, T.S. ; Ravi, N.</i>	
<b>REAL-TIME SPEED ESTIMATION OF VEHICLES FROM UNCALIBRATED VIEW-INDEPENDENT TRAFFIC CAMERAS</b> .....	2182
<i>Rao, A.Y.G. ; Kumar N, S. ; Amaresh, H.S. ; Chirag, H.V.</i>	
<b>MATES: A MATLAB-BASED ANALYTICAL ENERGY HARVESTING SIMULATOR</b> .....	2188
<i>Yu, C.K.P. ; Tiglao, N.M.C. ; Limjoco, W.J.R.</i>	
<b>A NONLINEAR FEATURE BASED EPILEPTIC SEIZURE DETECTION USING LEAST SQUARE SUPPORT VECTOR MACHINE CLASSIFIER</b> .....	2193
<i>Kolekar, M.H. ; Dash, D.P.</i>	
<b>ARTIFICIAL NEURAL NETWORKS FOR FACE RECOGNITION USING PCA AND BPNN</b> .....	2199
<i>Rajath Kumar, M.P. ; Keerthi Sravan, R. ; Aishwarya, K.M.</i>	
<b>SYSTEM DESIGN FOR MOBILE EXERGAME TO ENGAGE PHYSICAL ACTIVITY</b> .....	2205
<i>Palakvangsa-Na-Ayudhya, S. ; Senthongy, C. ; Somnatez, S. ; Thitiwimolx, P.</i>	
<b>A 2.4 GHZ PASSIVE WAKE-UP CIRCUIT FOR POWER MINIMIZATION IN WIRELESS SENSOR NODES</b> .....	2210
<i>Shekhar, C. ; Varma, S. ; Radhakrishna, M.</i>	
<b>A SYSTOLIC ARCHITECTURE BASED GF (2<sup>M</sup>) MULTIPLIER USING MODIFIED LSD FIRST MULTIPLICATION ALGORITHM</b> .....	2216
<i>Bhoite, A. ; Shastry, P.V.S. ; Rashinkar, M.</i>	
<b>LL-MCLMAC:A LOW LATENCY MULTI CHANNEL MAC PROTOCOL FOR WIRELESS SENSOR NETWORKS</b> .....	2222
<i>Azad, A.K. ; Alam, M.S. ; Shawkat, S.A.</i>	
<b>AN ONLINE TASK PLACEMENT ALGORITHM USING HILBERT CURVE FOR A PARTIALLY RECONFIGURABLE FIELD PROGRAMMABLE GATE ARRAY</b> .....	2227
<i>Joseph, S. ; Baskaran, K.</i>	
<b>STATIC AND ELECTROMAGNETIC ANALYSIS OF RF MEMS SHUNT CAPACITIVE SWITCH</b> .....	2233
<i>Guha, K. ; Kumar, M. ; Karsh, R.K. ; Rabha, R. ; Dutta, A. ; Nath, S. ; Baishya, S.</i>	
<b>A MOBILE APPLICATION FOR WOMEN'S SAFETY: WOSAPP</b> .....	2239
<i>Chand, D. ; Nayak, S. ; Bhat, K.S. ; Parikh, S. ; Singh, Y. ; Kamath, A.A.</i>	
<b>ANALYSIS OF THE NEGATIVE MILLER CAPACITANCE DURING SWITCHING TRANSIENTS OF IGBTs</b> .....	2244
<i>Yuan Teng ; Ji Tan ; Qiaoqun Yu ; Yangjun Zhu</i>	
<b>SPEECH ENHANCEMENT USING DISCRIMINATIVE RANDOM FIELDS</b> .....	2248
<i>Saligrama, A. ; Ranjani, H.G. ; Shankar, H.N. ; Muralishankar, R.</i>	
<b>ANTENNAS WITH DIGITALLY STEERABLE BEAMS FOR MODERN WIRELESS COMMUNICATION SYSTEMS</b> .....	2254
<i>Karmokar, D.K. ; Esselle, K.P.</i>	
<b>LOW-VOLTAGE CFOA WITH BULK-DRIVEN, QUASI-FLOATING-GATE AND BULK-DRIVEN-QUASI-FLOATING-GATE MOS TRANSISTORS</b> .....	2259
<i>Thongleam, T.</i>	
<b>ENHANCING THE RECOGNITION OF CHILDREN'S SPEECH ON ACOUSTICALLY MISMATCHED ASR SYSTEM</b> .....	2263
<i>Shahnawazuddin, S. ; Kathania, H.K. ; Sinha, R.</i>	
<b>SWITCHED-CAPACITOR POWER CONVERTER AND ITS APPLICATIONS TO FUTURE POWER NET</b> .....	2268
<i>Cheng, K.W.E. ; Yuanmao Ye</i>	

<b>AUTOMATIC OIL TANK TRUCK ALARM SYSTEM FROM ILLEGAL FUEL HOARDING WITH MICROCONTROLLER AND GSM MODULE BASED SYSTEM</b> .....	2274
<i>Fadjrimiratno, M.F. ; Wicaksono, A. ; Prayogo, R.C. ; Sidabutar, H.A.Y. ; Sumardi</i>	
<b>ENERGY AUDIT IN LADIES HOSTEL</b> .....	2280
<i>Ahila, C.P. ; Jeba Femi, W.J.</i>	
<b>PARALLEL RESONANCE IMPACT ON POWER FACTOR IMPROVEMENT IN POWER SYSTEM WITH HARMONIC DISTORTION</b> .....	2291
<i>Chaladying, S. ; Charlangsut, A. ; Rugthaichareoncheep, N.</i>	
<b>FACIAL IMAGE PROCESSING IN CONJUNCTION WITH PASSWORD FOR INTELLIGENT ACCESS CONTROL</b> .....	2296
<i>Dharavath, K. ; Talukdar, F.A. ; Laskar, R.H.</i>	
<b>A TRUE 1V 1<math>\mu</math>W BIOMEDICAL FRONT END WITH RECONFIGURABLE ADC FOR SELF POWERED SMARTER IOT HEALTHCARE SYSTEMS</b> .....	2301
<i>Patra, P. ; Yadav, K. ; Naik, J. ; Dutta, A.</i>	
<b>IMPROVED SPEAKER VERIFICATION USING BLOCK SPARSE CODING OVER JOINT SPEAKER-CHANNEL LEARNED DICTIONARY</b> .....	2305
<i>Sreeram, G. ; Haris, B.C. ; Sinha, R.</i>	
<b>INVESTIGATION OF A SMART TRANSFORMER</b> .....	2310
<i>Jayasooriya, J.V.D. ; Mahalaksha, M.M.H.C.N. ; Binduhewa, P.J. ; Kumara, J.R.S.S.</i>	
<b>CARDIAC BEAT CLASSIFICATION BASED ON WAVELET ANALYSIS OF EMPIRICAL MODE DECOMPOSED ECG SIGNALS</b> .....	2316
<i>Shahnaz, C. ; Anowar, T.B. ; Rafi, R.H.M. ; Ahmmed, I. ; Fattah, S.A.</i>	
<b>BLOCK BASED HISTOGRAM FEATURE EXTRACTION METHOD FOR BLEEDING DETECTION IN WIRELESS CAPSULE ENDOSCOPY</b> .....	2322
<i>Ghosh, T. ; Fattah, S.A. ; Shahnaz, C. ; Kundu, A.K. ; Rizve, M.N.</i>	
<b>DESIGN AND SIMULATION OF A NON-SILICON COMPOSITE INTERPOSER WITH REINFORCED STRUCTURE</b> .....	2326
<i>Yanmei Liu ; Dongwoo Kang ; Yunna Sun ; Yan Wang ; Guifu Ding</i>	
<b>RESEARCH ON DIAGNOSTIC METHOD OF PLASMA CAUSED BY CORONA DISCHARGE ON TOP OF COMPOSITE INSULATOR UNDER ATMOSPHERE CONDITIONS</b> .....	2330
<i>Dawei Hu ; Yidong Zhu ; Shaohua Ma ; Jieqiu Bao ; Jian Xu</i>	
<b>SURFACE MICRO-MACHINED HIGH GAIN CAVITY-BACKED PATCH ANTENNA ARRAY FOR 60GHZ RADIOS</b> .....	2334
<i>Xiuping Li ; Hua Zhu ; Nan Li ; Weiwei Feng ; Bo Ai ; Yang Tian ; Hong Wang</i>	
<b>HISTORICAL REVIEW OF PARALLEL HYBRID ACTIVE POWER FILTER FOR POWER QUALITY IMPROVEMENT</b> .....	2338
<i>Yang-Wen Wang ; Man-Chung Wong ; Chi-Seng Lam</i>	
<b>A NONLINEAR TRAJECTORY TRACKING CONTROLLER FOR HELICOPTERS: DESIGN AND EXPERIMENTAL EVALUATION</b> .....	2344
<i>Gan Yu ; Jianan Li ; Cabecinhas, D. ; Cunha, R. ; Silvestre, C.</i>	
<b>IS FIBER THE CATALYST FOR GROWTH OF THE MOBILE WIRELESS NETWORK?</b> .....	2350
<i>Ng, W.P. ; Kanesan, T.</i>	
<b>HOMING ON A MOVING DOCK FOR A QUADROTOR VEHICLE</b> .....	2353
<i>Zhiqi Tang ; Linqian Li ; Serra, P. ; Cabecinhas, D. ; Hamel, T. ; Cunha, R. ; Silvestre, C.</i>	
<b>EFFICIENT AGGLOMERATIVE HIERARCHICAL CLUSTERING FOR BIOLOGICAL SEQUENCE ANALYSIS</b> .....	2359
<i>Thuy-Diem Nguyen ; Chee-Keong Kwoh</i>	
<b>Author Index</b>	