

2016 International Conference On Communication Problem-Solving (ICCP 2016)

**Taipei, Taiwan
7-9 September 2016**



**IEEE Catalog Number: CFP1628L-POD
ISBN: 978-1-5090-1384-5**

**Copyright © 2016 by the Institute of Electrical and Electronics 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:	CFP1628L-POD
ISBN (Print-On-Demand):	978-1-5090-1384-5
ISBN (Online):	978-1-5090-1383-8

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
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

DISTRIBUTED CAPACITANCES OF COUPLED MICRO-STRIP LINES WITH SURROUNDED CONDUCTOR	1
<i>L. Yang, G. Lu</i>	
A METHOD OF CROSS-PLATFORM NETWORK DATA EXCHANGE	4
<i>S. Huang, W. Li</i>	
DESIGN OF EMBEDDED PARKING MANAGEMENT SYSTEM	6
<i>S. Huang, H. Fu</i>	
A DEADLINE-AWARE RATE CONTROL SCHEME RESOLVING OVERSUBSCRIPTION IN WIRELESS DATA CENTER NETWORKS	8
<i>T.-T. Yang, H.-W. Tseng</i>	
A 0.6V 70-DB SNDR ENERGY EFFICIENT HEARING AID CURRENT MODE READOUT AMPLIFIER USING ACCURACY COMPENSATION AND ADAPTIVE BIAS CURRENT TECHNIQUES	10
<i>F. Li, T. Yang</i>	
A CACHE LOOKUP MECHANISM FOR ENUM QUERY	13
<i>W.-E. Chen, Y.-L. Ciou</i>	
MONOLITHIC CONFORMAL MICROSTRIP PATCH ANTENNA	15
<i>X. Li, D. Chen, S. Zhao, L. Chen</i>	
STUDY ON A NEW NONUNIFORM FREQUENCY DENSITY MULTICARRIER RADAR SIGNAL AND ITS PERFORMANCES	17
<i>H. Cao, F. Chen, J. Zhang, H. Cao, S. He</i>	
RESEARCH ON CONFORMAL ARRAY ANTENNA BEAM OPTIMIZATION METHOD	22
<i>L. Chen, X. Li, S. Zhao, D. Chen</i>	
KAZE-BOF-BASED LARGE VEHICLES DETECTION AT NIGHT	24
<i>Y.-S. Chen, J.-C. Chien, J.-D. Lee</i>	
A 2-3 GHZ HIGH GAIN AND HIGH LINEARITY CURRENT-REUSED LNA WITH WIDEBAND INPUT MATCHING	26
<i>G. Cheng, Z. Li, L. Luo, Z. Wang</i>	
PARALLELISM TUNING ACCORDING TO THE DEADLINE FOR POWER-GATED ILP PROCESSORS	28
<i>Y. Tong, Y. Liang, Y.-C. Ma, W. Zhang</i>	
A NOVEL MEMRISTOR-BASED AMPLITUDE MODULATOR	30
<i>W. Hu, C. Chen</i>	
A STUDY OF IMPULSIVE NOISE IMMUNITY FOR WAVELET-OFDM-BASED POWER LINE COMMUNICATIONS	32
<i>H.-C. Yu, Y.-R. Chien, H.-W. Tsao</i>	
POLARIZATION PULLING ENHANCED PHASE MATCHING IN FIBER OPTICAL PARAMETRIC AMPLIFIERS	34
<i>S. Wang</i>	
COUPLED-LINE COUPLER WITH CONTROLLABLE BANDWIDTH	36
<i>C.-C. Chang, Y.-F. Zheng, H.-C. Kuo, K.-S. Chin</i>	
WIDEBAND POWER DIVIDER USING SIR IMPEDANCE MATCHING STRUCTURES	38
<i>X.-L. Zhao, M. Tang, X.-F. Liu, K.-X. Wang, Y. Cao</i>	
A SPARSE TREE ADDER WITH CARRY-SELECT DESIGNED BY REVERSIBLE LOGIC	40
<i>R. Wang, T. Zhuang, H. Jiang</i>	
SINGLE IMAGE-BASED HDR IMAGING WITH CRF ESTIMATION	42
<i>Y. Huo, X. Zhang</i>	
MEMRISTIVE MULTIPLEXED FLIP-FLOP FOR SCAN TESTING	45
<i>C. Chen, W. Hu</i>	
IMPLEMENTATION OF AN EFL ELECTRONIC BALLAST WITH BURST DIMMING CAPABILITY	47
<i>C.-Y. Ho, C.-H. Lin, W.-J. Lin</i>	
A SIMPLE METHOD FOR WALKING POSTURE ANALYSIS USING ACCELEROMETERS	51
<i>J. Chien, K. Hirakawa, J.-S. Shieh, H. Guo, Y. Hsieh</i>	
A MODULAR INTEGRATING ALGORITHM FOR MULTIPLE ARRHYTHMIA DETECTION	54
<i>C.-H. Lin, J.-C. Chien, K. Haraikawa, Y.-S. Huang, H.-W. Guo, J.-S. Shieh</i>	

PERIODICAL POWER DROPPING EFFECT IN MILLIMETER WAVE OVER FIBER SYSTEMS	56
<i>J. Lin, S.-H. Chen, W.-P. Lin</i>	
PERFORMANCE EVALUATION OF DISTRIBUTED OBJECT HYBRID STORAGE SYSTEMS FOR SMART-LIVING APPLICATIONS	58
<i>Y.-F. Lu, C.-F. Kuo, J.-S. Li, S.-C. Chou</i>	
HIGH DYNAMIC RANGE IMAGE FUSION IN HSV SPACE	60
<i>H. Xia, Y. Huo</i>	
A STANDALONE WIRELESS 6 DEGREE-OF-FREEDOM MOTION SENSING MODULE AND ITS APPLICATIONS IN HEALTH CARE	62
<i>W.-Y. Lin, W.-Z. Chou, M.-Y. Lee</i>	
PERFORMANCE EVALUATING OF SMALL DATA TRANSMISSIONS IN GENERALIZED MULTICHANNEL SLOTTED ALOHA SYSTEMS	64
<i>C.-C. Huang, R.-G. Cheng, R. Harwahyu</i>	
HDMI VIDEO SCALING ON AN ALL-PROGRAMMABLE SOC	66
<i>C.-Y. Tsai, C.-L. Chen</i>	
CONSTRUCTING A FACE-TO-FACE FRIEND-MAKING PLATFORM USING BEACON-BASED MICRO-LOCATION INFORMATION	68
<i>T.-H. Wang, H.-C. Lin, C.-K. Wang, Y.-S. Lin, C.-B. Huang</i>	
EMERGENCY NAVIGATION AND ALARM WITH FLOODING MODELS - A REAL CASE STUDY OF MANADO CITY	70
<i>I. Kairupan, Z.-Y. Huang, H.-C. Chang, C.-W. Chang</i>	
A SECURE AND UNCLONABLE MEDICAL IMAGE TRANSMISSION SYSTEM BY USING EMBEDDED PHYSICAL UNCLONEABLE FUNCTION	72
<i>Y.-S. Tu, J. Chen</i>	
THE LC-VCO PLL FREQUENCY SYNTHESIZERS WITH CONSTANT LOOP BANDWIDTH	75
<i>J.-W. Huang, L.-Q. Yang, S.-H. Xu</i>	
DESIGN OF ECG SIGNAL ACQUISITION SYSTEM BASED ON ADS1291	77
<i>J.-Z. Chen, L.-H. Wang, F.-X. Wang, M.-H. Fan</i>	
A 100NW 6PPM/°C VOLTAGE REFERENCE WITH ALL MOS TRANSISTORS	79
<i>Q.-C. Chen, L.-H. Wang</i>	
DESIGN AND IMPLEMENTATION OF A ZIGBEE-BASED EMULATION PLATFORM FOR UNDERWATER ACOUSTIC SENSOR NETWORKS	81
<i>Y.-D. Chen, C.-H. Chiang, C. Chuang, S.-Y. Wang, K.-P. Shih</i>	
DESIGN OF A LOW-PROFILE RECONFIGURABLE ABSORBER BASED ON SPLIT RING RESONATOR	83
<i>Y. Han, X. Xiu, W. Che</i>	
APPLICATION OF IMAGE RECOGNITION ALGORITHM IN SATELLITE INTERFERENCE TRANSMITTER LOCATION	85
<i>M. Wei, X. Ma, H. Li, P. Li</i>	
A LOW COMPLEXITY ALGORITHM FOR EARTHQUAKE DETECTION SYSTEM	87
<i>M.-Y. Hsu, S.-T. Sheu</i>	
PREDICTING THE PERCENTAGE OF ATRIAL FIBRILLATION USING SAMPLE ENTROPY	89
<i>M. Sadrawi, B. Mathunjwa, J.-S. Shieh, H. Guo, K. Haraikawa, J. Chien, M. Abbod</i>	
3D PRINTED PROSTHETIC HANDS	91
<i>P.-H. Wu, J.-S. Shieh</i>	
QR CODE STEGANOGRAPHY MECHANISM WITH HIGH CAPACITY	93
<i>M. Luo, S. Wang, P.-Y. Lin</i>	
INDOOR LOCATION ESTIMATION USING VIRTUAL FINGERPRINT CONSTRUCTION AND ZONE-BASED REMEDY ALGORITHM	95
<i>Y.-H. Wu, Y.-L. Chen, S.-T. Sheu</i>	
GART: A GRAFT ALGORITHM TO REBALANCE BINARY SEARCH TREES ON NONVOLATILE MEMORIES	98
<i>Y.-F. Liu, P.-C. Huang</i>	
RESEARCH ON REMOTE DIAGNOSIS SYSTEM BASED ON BAIDUMAP API AND OBD II DIAGNOSIS TECHNOLOGY	100
<i>T. Jia, W. Luo, H. Jia, H. Zhu, X. Li</i>	
WIDEBAND FORWARD-WAVE 3-DB COUPLER CONSTRUCTED BY COUPLED LINES AND VIA-WALL STRUCTURES	103
<i>Y. Cao, W. Che, K.-S. Chin, H. Chen</i>	
A HYBRID BROADCAST & MULTICAST SCHEME FOR THE NEXT GENERATION SATELLITE TV SYSTEMS	105
<i>J. Lai, J. Zhao, W. Zhang, L. Li, W. Wu</i>	
AUTHOR INDEX	