

2015 Seventh International Conference on Advanced Communication and Networking (ACN 2015)

**Kota Kinabalu, Malaysia
8-11 July 2015**



**IEEE Catalog Number: CFP15D68-POD
ISBN: 978-1-4673-7956-4**

**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:	CFP15D68-POD
ISBN (Print-On-Demand):	978-1-4673-7956-4
ISBN (Online):	978-1-4673-7955-7

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

2015 Seventh International Conference on Advanced Communication and Networking

ACN 2015

Table of Contents

Foreward.....	vii
Preface.....	viii
Conference Organization.....	ix
Program Committee.....	x

ACN 2015

Application Oriented Frame Design for ZigBee Sensor Networks	3
<i>Jun-feng Gao, Tian-sheng Wang, and Guang-yi Tang</i>	
An Image Registration Method Based on Improved SIFT Algorithm	7
<i>Qingsong Meng and Zhihui Lv</i>	
Discussion About Radio Frequency Identification Conflict	11
<i>Yinfei Dai, Ping Feng, and Yinchun Dai</i>	
Study on the Characteristics of Delta Deposition in Reservoir	15
<i>Tong Sichen, Wan Yan, and Fu Wanbin</i>	
Reliability Simulation Prediction Based on Multi-factors for CNC Bending Machine Tools	20
<i>Zhongwen Wang, Chen Li, and Xiaolong Guo</i>	
The Foreground Segmentation Based on Surf Algorithm and Background Subtraction	24
<i>Yanxin Sun and Guang Yu</i>	
Flow Field Simulation of Ultrasonic Vibration Assisted EDM of Holes Array	28
<i>Baocheng Xie, Yanwen Zhang, Jingwei Zhang, Shengle Ren, and Xianli Liu</i>	
A Nonlinear Modeling Method of Switched Reluctance Motor	32
<i>Zhou Yongqin, Sun Qin, Luo Lanlan, and Sun Hao</i>	

Single Stage Horizontal Self-Priming Pump System Assembly and Kinematics Simulation	36
<i>Zhang Yuan, Jiang Jiliang, Zhang Liyuan, and Wei Qiang</i>	
Design and Implementation of the Music Player Based on Interface Chip CH378	40
<i>Zhang Hong, Zhao Ruirui, and Tian Chunwei</i>	
The Research of PMSM Rotor Position Detection Based on Compound Algorithm	44
<i>Ai Hong, Wang Le-tian, Wang Kun, and Gao Sheng-yu</i>	
Design of a CMOS Three-Stage Operational Amplifier for ALD	48
<i>Yang Guang, Cui Linhai, and Huang Hai</i>	
A Parallel Aho-Corasick Algorithm with Non-deterministic Finite Automaton Based on OpenMP	52
<i>Jiaying Qu, Guoyin Zhang, Zhou Fang, Jiahui Liu, Xinyu Liu, and Fangzhou Li</i>	
Research of Rice Appearance Quality Recognition	56
<i>Weifeng Zhong, Lixia Ma, and Yuheng Yin</i>	
Research of the Emergency Communication System in Coal Mine Based on ZigBee Technology	60
<i>Zhang Yuping, Yan Xiaoling, and Li Chen</i>	
Design of H^∞ Fault-tolerant Controller for Networked Control System	64
<i>Peng Zhang and Zhanxia Gong</i>	
Classification Model for Query Logs Based on Intent Mining	68
<i>Zhang Shuang and Nianbin Wang</i>	
A Chaos Synchronization System for Secure Communication Based on State Observer	72
<i>Xin Li and Hui Zhang</i>	
A New Approach of Optimal Path Planning for Electronic Guide System	76
<i>Rui Zhang and Guanglong Ni</i>	
Criminal Act Detection and Identification Model	79
<i>Ehab Hamdy, Ammar Adl, Aboul Ella Hassanien, Osman Hegazy, and Tai-Hoon Kim</i>	
Human Activity Classification Approach on Smartphone Using Monkey Search Algorithm	84
<i>Moustafa Zein, Aboul Ella Hassanien, Amr Badr, and Tai-Hoon Kim</i>	
Feature Selection Approach Based on Social Spider Algorithm: Case Study on Abdominal CT Liver Tumor	89
<i>Ahmed M. Anter, Aboul Ella Hassanien, Mohamed Abu ElSoud, and Tai-Hoon Kim</i>	
Author Index	95