2015 2nd International Symposium on Future Information and Communication Technologies for Ubiquitous HealthCare

(Ubi-HealthTech 2015)

Beijing, China 28 – 30 May 2015



IEEE Catalog Number:

: CFP1599V-POD 978-1-4799-6169-6

ISBN:

TABLE OF CONTENTS

001-1570103929	THE DATA MINING APPLICATIONS OF SHOULDER 1					
	PAIN PATIENTS TREATMENT: PHYSICAL					
	THERAPY EQUIPMENT USAGE APPROACHES					
	Kittisak Kaewbooddee, Sotarat Thammaboosadee, Waranyu Wongseree					
002-1570105895	A NON-INVASIVE REMOTE HEALTH MONITORING 6					
	SYSTEM USING VISIBLE LIGHT COMMUNICATION					
	Abdulla Al-Qahtani, Hamad Al-hajri, Saad Al-kuwari, Naseer Al-yaarabi,					
	Abdulrahman Al-hababi, Essa Al-kubaisi, Abdulla Ahmed, Mohamad					
	Kashef and Qammer H. Abbasi					
003-1570114863	GLUCOSE-TRACKING: A POSTPRANDIAL GLUCOSE 9					
	PREDICTION SYSTEM FOR DIABETIC					
	SELF-MANAGEMENT					
	Ge Shi, Shihong Zou, Anpeng Huang					
004-1570115015	AN EGG ARRHYTHMIA CLASSIFICATION AND HEART 18					
	RATE VARIABILITY ANALYSIS SYSTEM BASED ON					
	ANDROID PLATFORM					
	Shouhai Xue, Xianxiang Chen, Zhen Fang, Shanhong Xia					
005-1570115123	FEED: AN EGG DATA MINING ALGORITHM IN 23					
	WE-CARE SYSTEM					
	Junmeng Gao, Shihong Zou, Anpeng Huang					
006-1570115411	SENSOR FUSION-BASED INFRASTRUCTURE 31					
	INDEPENDENT AND AGILE REAL-TIME INDOOR					
	POSITIONING TECHNOLOGY FOR DISABLED AND					
	ELDERLY PEOPLE					
	Xinran Li, Dan Luo, Fang Zhao, Yongzhong Li and Haiyong Luo					
007-1570113905	PERFORMANCE ANALYSIS OF WBAN BASED ON AODV 36					
	AND DSDV ROUTING PROTOCOLS					
	Pengfei He, Xiao Li, Long Yan, Shan Yang, Boye Zhang					
008-1570113941	OPTIMAL RESOURCE ALLOCATION IN ENERGY 40					
	HARVESTING-POWERED BODY SENSOR					
	NETWORKS					

Bin L	iu. Suc	heng	Yu.	Chang	Wen	Chen
-------	---------	------	-----	-------	-----	------

009-1570115343 REVERSIBLE DATA HIDING IN ECG SIGNALS 45
BASED ON HISTOGRAM SHIFTING AND
THRESHOLDING

Wenchao Wu, Bin Liu, Weiming Zhang, Changwen Chen

010-1570105393 OPTIMALITY ASSIGNMENT OF HETEROGENEOUS 50
SENSOR NODES IN EMERGENCY MEDICAL
NETWORKS

Xiaoshuang Liu, Guixia Kang, Ningbo Zhang, Hao Wu, Yuncheng Liu

012-1570115707 **DESIGN OF ELECTRONIC BLOOD PRESSURE** 56

MONITORING SYSTEM BASED ON DOUBLE

FILTER

Xiang-yang Meng, Jin-ling Zhang, Yue Liu, Jia-bao Wen, Shao-ling Huang

013-1570115711 **DESIGN AND IMPLEMENTATION OF A** 61 **REFLECTION PULSE OXIMETER IN TELE-MONITORING SYSTEM**

Xinsheng Lv, Jinling Zhang, Xiongzhi Zhu, Jun Wang, Yubo Chen

014-1570115713 **DESIGN OF A PORTABLE 7-LEAD ECG** 65

MONITORING SYSTEM WITH LOW POWER

FRONT-END FILTERING CIRCUIT

Yun-peng Han, Jin-ling Zhang, Jun Wang, Sheng Zhang, Yu-bo Chen

015-1570115109 THE FOG COMPUTING SERVICE FOR 70 HEALTHCARE

YingJuan Shi, GeJian Ding, Hui Wang, H. Eduardo Roman, Si Lu

019-1570115603 FUTURE BODY-TO-BODY NETWORKS FOR 75
UBIQUITOUS HEALTHCARE: A SURVEY,
TAXONOMY AND CHALLENGES

Amira Meharouech, Jocelyne Elias, Ahmed Mehaoua

020-1570115653 DYNAMIC CHANNEL ALLOCATION FOR 81
INTERFERENCE MITIGATION IN RELAY-ASSISTED
WIRELESS BODY NETWORKS

Mohamad Jaafar Ali, Hassine Moungla, Ahmed Mehaoua, Yong XU

021-1570115965 POWER CONTROL AND LOCALIZATION OF 87 WIRELESS BODY AREA NETWORKS USING SEMIDFINITE PROGRAMMING

Zhaoyang Zhang, Jingfang Huang, Honggang Wang, Hua Fang

022-1570117119 TRANSMISSION AND ENCODING RESEARCH ON 92 LIFE STATUS DATA IN WSN COMBINED WITH OVTDM AND CS

Zhang Fan, Zhang Xihong