

PROGRAM SCHEDULE FOR UCAWSN 2016

Day 1, July 6, 2016				
Time	Min	HALL A	HALL B	HALL C
08:40-09:00	20	Registration		
09:00-10:40	100	Session A-1 Chair : Md. Zia Uddin	Session B-1 Chair : Jaesoo Kim	Session C-1 Chair : Sangkee Suk
10:40-10:50	10	Coffee Break		
10:50-12:30	100	Session A-2 Chair : Fei Hao	Session B-2 Chair : Mi Kim	Session C-2 SSHQS Chair : JinHo Park
12:30-14:00	90	Lunch		
14:00-14:40	40	Keynote : Introduction to LoRaWAN Dr. Kwang-il Hwang Professor at Dept. of Embedded Systems Engineering College of Information Technology Incheon National University, Korea Chair : Gangman Yi		
14:40-15:00	20	Coffee Break		
15:00-16:40	100	Session A-3 Chair : Eunmi Choi	Session B-3 Chair : Joon-Min Gil	Session C-3 Chair : Kyung-Soo Lim
16:40-18:00	80	Break		
18:00-19:30	90	Banquet (Ramada Jeju Hamdeok Hotel) Chair : Aziz Nasridinov		

Day 2, July 7, 2016				
Time	Min	HALL A	HALL B	HALL C
09:00-12:00	180	Local Arrangement Committee Meeting		
13:00-15:00	120	Organizing Committee Meeting I		
16:00-17:00	60	Executive Meeting I - Organized by UCAWSN 2016		

[ONLY FOR INVITED MEMBERS]

Day 3, July 8, 2016				
Time	Min	HALL A	HALL B	HALL C
09:00-10:30	90	Organizing Committee Meeting II		
10:30-10:40	10	Break		
10:40-12:10	90	Executive Meeting II - Organized by UCAWSN 2016		

[ONLY FOR INVITED MEMBERS]

1. A paper presentation should be made by one of authors of the paper for 15 minute (10 minutes for the presentation itself and 5 minutes for Q/A).
2. All speakers of each session should meet the session chair at their room 10 minutes before the session begins.
3. Windows laptops running the Adobe Reader and Microsoft Office for paper presentations will be prepared. Please prepare for your presentation.

**DETAILED SCHEDULE FOR
THE 5TH INTERNATIONAL CONFERENCE ON
UBIQUITOUS COMPUTING APPLICATION AND WIRELESS
SENSOR NETWORK (UCAWSN-16)**

Day 1, July 6, 2016 (Wednesday)

08:40-09:00 Registration

**09:00-10:40 Session A-1
(HALL A)
(Chair: Md. Zia Uddin)**

- 1. Development of Custom Digital Signal Processor for Finger Recognition Vision Applications**
Jangseop Shin, Moonkwon Kim, Yunheung Paek
- 2. Water Surface Simulation based on Perlin Noise and Secondary Distorted Textures**
Hua Li, Huamin Yang, Chao Xu, Yuling Cao
- 3. Parallel implementation of color-based particle filter for object tracking in embedded system**
Mai Thanh Nhat Truong, Sanghoon Kim
- 4. Sensor Coverage Problem and Its Solution in Sparse MANET Environments for Big Data Aggregation**
JongBeom Lim, HeonChang Yu, JoonMin Gil
- 5. Design of an HDS Migration Algorithm for the Data Reliability Improvement of the IPCC Statistics DB**
Seung-Su Yang, Yong-wan Ju, Seok-cheon Park
- 6. Platform Independent Workflow Mechanism for Bigdata Analytics**
Tai-Yeon Ku, Hee-Sun Won
- 7. The Energy Efficiency Grade of an Application based on a Category and Usage Patterns**
Dusan Baek, Jae-Hyeon Park, Jung-Won Lee
- 8. Data Mining Techniques to Facilitate Digital Forensics Investigations**
Erik Miranda Lopez, Yoon ho Kim, Jong Hyuk Park
- 9. A Deep Learning-based Gait Posture Recognition from Depth Information for Smart Home Applications**
Md. Zia Uddin, Mi-Ryang Kim

**09:00-10:40 Session B-1
(HALL B)
(Chair: Jaesoo Kim)**

- 1. Student's-t Mixture Model Based Excepted Patch Log Likelihood Method for Image Denoising**
J.W.Zhang, J.Liu, Y.H.Zheng, J.Wang
- 2. Regularization Parameter Selection for Gaussian Mixture Model Based Image Denoising Method**
J.W.Zhang, J.Liu, Y.H.Zheng, J.Wang
- 3. Student's-t Mixture Model Based Image Denoising Method with Gradient Fidelity Term**
J.W.Zhang, J.Liu, Y.H.Zheng, J.Wang
- 4. Classification Algorithms for Privacy Preserving in Data Mining: A Survey**
Sai Ji, Zhen Wang, Qi Liu, Xiaodong Liu
- 5. Exploiting Group Signature to Implement User Authentication in Cloud Computing**
Sai Ji, Dengzhi Liu, Jian Shen
- 6. Localization Technology in Wireless Sensor Networks Using RSSI and LQI: A Survey**
Sai Ji, Dengzhi Liu, Jian Shen
- 7. Solving Standard Cell Placement Problem using Discrete Firefly Algorithm: A Nature Inspired Approach**
Pradip Kumar Sharma, Saurabh Singh, Jong Hyuk Park
- 8. A Security Model for Protecting Virtualization in Cloud Computing**
Saurabh Singh, Pradip Kumar Sharma, Jong Hyuk Park

09:00-10:40 Session C-1
(HALL C)
(Chair: Sangkee Suk)

- 1. Design of Jitter Buffer Control Algorithm for Guaranteeing the Medical Information Data Transmission Quality in Wireless Network Environment**
Dong-Wan Joe, Jae-sung Shim, Yong-wan Ju, Seok-cheon Park
- 2. Restoration method for Satellite Image Based on Content-aware Reciprocal Cell Pool**
Yuhui Zheng, Xiaozhou Zhou, Tong Li, Jin Wang
- 3. A Secure System Framework for an Agricultural IoT Application**
Hao Wu, Fangpeng Chen, Hanfeng Hu, Qi Liu, Sai Ji
- 4. Energy-Balanced Unequal Clustering Routing Algorithm for Wireless Sensor Networks**
Jin Wang, Yiquan Cao, Jiayi Cao, Huan Ji, Xiaofeng Yu
- 5. Content-based Image Retrieval Using Combined Color and Texture Features extracted by Multi-resolution Multi-direction Filtering**
Heehyung Bu, Namchul Kim, Chaejoo Moon, Jonghwa Kim
- 6. Design of Software Reliability Test Architecture for the Connected Car**
Seokhoon Kim, Doo-soon Park
- 7. A Study of Design and Implementation of Games as a Service of IoT**
Hye-Young Kim
- 8. Performance Comparison with Mass-Spring Systems on GPU**
Young-Hwan Choi, Min Hong, Hwa-Min Lee, Yoo-Joo Choi
- 9. Security Requirements and Countermeasures for Secure Home Network in Internet of Things**
Seo Yeon Moon, Jong Hyuk Park

10:40-10:50 Coffee break

10:50-12:30 Session A-2

(HALL A)

(Chair: Fei Hao)

- 1. Network activation control according to traffic characteristics in sensor networks for IoT**
Dae-Young Kim, Young-Sik Jeong, Seokhoon Kim
- 2. Effective Pre-processing Methods with DTG Big Data by using MapReduce Techniques**
Wonhee Cho, Eunmi Choi
- 3. Machine learning for trajectory generation of multiple-pedestrians**
Hye-Yeon Yu, Young-Nam Kim and Moon-Hyun Kim
- 4. Analysis of hard shadow anti-aliasing**
Hua Li, Yuling Cao, Xin Feng
- 5. Cascade-Adaboost for Pedestrian Detection Using HOG and Combined Features**
Gyujin Jang, Jinhee Park, Moonhyun Kim
- 6. Portable hypervisor design for commercial 64-bit Android devices supporting 32-bit compatible mode**
Kangho Kim, Kwangwon Koh, Seunghyub Jeon, Sungin Jung
- 7. Fast ground segmentation for LIDAR point cloud**
Phuong Chu, Seoungjae Cho, Kyungeun Cho

10:50-12:30 Session B-2

(HALL B)

(Chair: Mi Kim)

- 1. Endoscopy Simulation using Ultra High Resolution Color Volume Data**
Koojoo Kwon, Byeong-Seok Shin
- 2. Coarse-grained 2.5-D CSAMT parallel inversion method based on multi-core CPU**
Lili HE, Hongtao BAI, Jin WANG, Yu JIANG, Tonglin LI
- 3. Virtual Force and Glowworm Swarm Optimization based Node Deployment Strategy for SNs**
Jin Wang, Yiquan Cao, Bin Li, Jong Hyuk Park
- 4. Comparison with recommendation algorithm based on random forest model**
Yu JIANG, Lili HE, Yan GAO, Kai WANG, Chengquan HU
- 5. Risk factors and the difference among hypertension, diabetes and heart disease**
Xue WANG, Lili HE, Hongtao BAI
- 6. Bi-directional Low-Power Management for Energy Efficient IoT Platforms**
Seung-Kyu Park, Kwang-il Hwang, Hyo-Seong Kim, Suk-Jun Choi

10:50-12:30 Session C-2 : SSHQS

(HALL C)

(Chair: Jin-Ho Park)

1. **A Quality Model for Evaluating IoT Services**
Mi kim, Nam-Yong Lee, Jin-Ho Park
2. **An Empirical Study of Risk Factors for the Development Methodology for small-size IT projects**
Joonho Park, Nam-Yong Lee, Jin-Ho Park
3. **Empirical Study on IoT- learning for the rehabilitation treatment of chronic low back pain patients**
Seul-A Shin, Nam-Yong Lee, Jin-Ho Park
4. **A Theoretical Study of Hardware Architecture for Network Security Server**
Joong-yeon Lee, In-taek Oh, Nam-Yong Lee, Jin-Ho Park
5. **An Empirical Study of the Relationship between DISC Behavioral Style of Application Programmer and Quality of Software Development**
In-Taek Oh, Joong-Yeon Lee, Jae-Yoon Cheon, Nam-yong Lee, Jin-Ho Park
6. **A Design of Secure Authentication Method with Bio-Information in the Car Sharing Environment**
Sanghyeon Park, Jeongho Kim, Moonseog Jun
7. **A Design of Certificateless-based Device Authentication Scheme in the SmartHome Environment**
Jaeseung Lee, Jaehwa Chung, Sangkee Suk
8. **A Design of Secure Authentication Method Using Zero Knowledge Proof in Smart-Home Environment**
Geunil Park, Bumryoung Kim, Mmoonseog Jun
9. **Drone Classification by Available Control Distances**
Mansik Kim, Hyunjoo Kim, Jungho Kang, Jaesoo Kim
10. **A Design of Key Agreement Scheme between Lightweight Devices in IoT Environment**
Hague Chung, Keun-Chang Choi, Moonseog Jun

12:30-14:00 Lunch

14:00-14:40 Keynote Speech
(HALL B)
(Chair: Aziz Nasridinov)

Keynote Speech : “Introduction to LoRaWAN”

Dr. Kwang-il Hwang

Professor at Dept. of Embedded Systems Engineering
College of Information Technolgy
Incheon National University, Korea

14:40-15:00 Coffee break

15:00-16:40 Session A-3
(HALL A)

(Chair: Eunmi Choi)

1. **Linear programming computation model based on DPVM**
Hongtao BAI, Lili HE, Yu JIANG, Jin WANG, Shanshan JIANG
2. **A Proposal for a Protecting Sensitive User Information on the Mobile Device based on Mobile Hypervisor**
Kyung-Soo Lim, Jeong-Nye Kim
3. **Nack-Based Broadcast Mechanism for Isochronous Audio Stream Transmission using Bluetooth Low Energy**
Jaeho Lee
4. **Integer-based Fully Homomorphic Encryption with Compressed Encryption Functionality**
Taek-Young Youn, Nam-Su Jho, Ku-Young Chang
5. **The Agent Communication Simulation Based on the Ego State Model of Transactional Analysis**
Mi-Sun Kim, Green Bang, Il-Ju Ko
6. **Conceptual Extraction of Compound Keyword**
Samuel Sangkon Lee

15:00-16:40 Session B-3

(HALL B)

(Chair: Joon-Min Gil)

1. **Occluded Pedestrian Classification using Gradient Patch and Convolutional Neural Networks**
Sangyoon Kim, Moonhyun Kim
2. **Exploiting Social Evolution of Place-focused Online Communities in Location-based Services**
Fei Hao, Doo-Soon Park, Dae-Soo Sim, Min Jeong Kim, Young-Sik Jeong, Jong-Hyuk Park, Hyung-Seok Seo
3. **Generalized Multi-linear Mixed Effects Model**
Chao Li, Lili Guo, Zheng Dou, Guangzhen Si, Chunmei Li
4. **Anomaly Detection of Spectrum in Wireless Communication Via Deep Autoencoder**
Qingsong Feng, Zheng Dou, Chunmei Li, Guangzhen Si
5. **A Modified Complex ICA for Blind Source Separation and The Application in Communication Reconnaissance**
Zheng Dou, Zi Xiao, Yang Zhao, Jinyu Wang
6. **A Study on Fast Generation of Digital Hologram with Multi-GPU Based Shader**
Byoung-Soo Koh, Seong-Hee Hong

15:00-16:40 Session C-3

(HALL C)

(Chair: Kyung-Soo Lim)

1. **Implementation of an Image Restoration Method for Spatially Variant Blurs with Block Iteration**

Jiyeon Lee, Kuk Won Ko, Sangjoon Lee

2. A Novel IT Convergence Framework for Games in IoT

Hye-Young Kim

3. A Study on the Effective Communication Protocol of the Surface Inspection Rail Robot that it can be a Self-Checking

Yun-Seok Lee, Eun Kim, Sungyun Kim, Seokhoon Kim

4. HMM-based Health State Clustering and Prediction

Young-Won Kim, Bong-Kee Sin, Jaehun Choi

5. The Efficient Multimedia Transmission Services for the E-learning System with Sensor

Sung-Hwa Hong, Joon-Min Gil

6. Method for FOSS license compatibility verification using feature point comparison

Yongjoon Joe, Hyekeun Bahng, Dongmyung Shin

7. Intelligent Space-Aware Service Deployment for Service-Oriented Embedded System

Changgyu Bak, Jung-Won Lee

16:40-18:00 Break

18:00-19:30 Banquet

Day 2, July 7, 2016 (Thursday)

09:00-12:00 Local Arrangement Committee Meeting (HALL A)

13:00-15:00 Organizing Committee Meeting I (HALL A)

16:00-17:00 Executive Meeting I - Organized by UCAWSN 2016 (HALL A)

Day 3, July 8, 2016 (Friday)

09:00-10:30 Organizing Committee Meeting II (HALL A)

10:30-10:40 Break

10:40-12:10 Executive Meeting II - Organized by UCAWSN 2016 (HALL A)

CONFERENCE VENUE

Ramada Jeju Hamdeok Hotel



Address

RAMADA JEJU HAMDEOK 470, Shinbuk-ro, Jocheon-eup, Jeju-do, Korea
 Front desk TEL +82-64-735-9000 / FAX +82-64-735-9050
 Reservation TEL +82-2-541-4800 / FAX +82-2-541-4224

URL: <http://www.ramadajejuhamdeok.co.kr/en/home-2>

Reservations

To book the hotel, the hotel need a revservation form, Download is as follows:
<http://ucawsn-conference.org/2016/UCAWSN2016HotelRegistrationForm.xlsx>

From/to JEJU International Airport

1. By taxi

Approximately 18 km to NCUT, about 40 minutes by Taxi. Taxi fee is around ₩20,000

2. Free Hotel Shuttle Bus

TIMETABLE SHUTTLE BUS

(공항 ← 호텔 간)

문의 : 064-735-9000

호텔 출발 Hotel	→	공항 도착 Airport	공항 출발 Airport	→	호텔 도착 Hotel
10:00	→	10:30	09:00	→	09:30
12:00	→	12:30	11:00	→	11:30
14:00	→	14:30	13:00	→	13:30
16:00	→	16:30	15:00	→	15:30
18:00	→	18:30	17:00	→	17:30
19:30	→	20:00	18:30	→	19:00
호텔 정문에서 출발 Hotel			공항버스 주차장 C10 Airport bus stop C10		