# PROGRAM SCHEDULE FOR WORLD IT CONGRESS 2015

## Day 1, Feb. 24, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Min</th>
<th>HALL -A</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-12:00</td>
<td>240</td>
<td>Local Arrangement Committee Meeting</td>
</tr>
<tr>
<td>13:00-15:00</td>
<td>120</td>
<td>Organizing Committee Meeting I</td>
</tr>
<tr>
<td>16:00-17:00</td>
<td>60</td>
<td>Executive Meeting I - Organized by World IT 2015</td>
</tr>
</tbody>
</table>

[ONLY FOR INVITED MEMBERS]

## Day 2, Feb. 25, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Min</th>
<th>HALL -A</th>
<th>HALL B</th>
<th>HALL C</th>
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<tbody>
<tr>
<td>08:40-09:00</td>
<td>20</td>
<td>Registration</td>
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<tr>
<td>09:00-10:30</td>
<td>90</td>
<td>Session A-1</td>
<td>Session B-1</td>
<td>Session C-1</td>
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<td>Chair :</td>
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<tr>
<td>10:30-10:40</td>
<td>10</td>
<td>Coffee Break</td>
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<tr>
<td>10:40-12:10</td>
<td>90</td>
<td>Session A-2</td>
<td>Session B-2</td>
<td>Session C-2</td>
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<tr>
<td>12:10-13:30</td>
<td>80</td>
<td>Lunch</td>
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<tr>
<td>13:30-14:30</td>
<td>60</td>
<td>Keynote Speech</td>
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<tr>
<td>14:30-14:40</td>
<td>10</td>
<td>Coffee Break</td>
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<td></td>
</tr>
<tr>
<td>14:40-16:10</td>
<td>90</td>
<td>Session A-3</td>
<td>Session B-3</td>
<td>Session C-3</td>
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<td>Chair :</td>
<td>Chair :</td>
<td>Chair :</td>
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<tr>
<td>16:10-16:20</td>
<td>10</td>
<td>Coffee Break</td>
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<tr>
<td>16:20-18:00</td>
<td>100</td>
<td>Session A-4</td>
<td>Session B-4</td>
<td>Session C-4</td>
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<td>Chair :</td>
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<tr>
<td>19:00-21:00</td>
<td>110</td>
<td>Banquet (HALL B)</td>
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## Day 3, Feb. 26, 2015

<table>
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<tr>
<th>Time</th>
<th>Min</th>
<th>HALL -A</th>
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</thead>
<tbody>
<tr>
<td>09:00-12:00</td>
<td>240</td>
<td>Organizing Committee Meeting II</td>
</tr>
</tbody>
</table>
1. A paper presentation should be made by one of authors of the paper for 20 minutes (15 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 7 laptops running the Adobe Reader and Microsoft Office for paper presentations will be prepared. Please prepare for your presentation.
DETAILED SCHEDULE FOR
THE 2015 WORLD CONGRESS ON
INFORMATION TECHNOLOGY, APPLICATIONS
AND SERVICES

(WORLD IT CONGRESS 2015)

Day 1, Feb. 24, 2015 (Thursday)

09:00-12:00 Local Arrangement Committee Meeting
13:00-15:00 Organizing Committee Meeting I
16:00-17:00 Executive Meeting I - Organized by World IT 2015

Day 2, Feb. 25, 2015 (Wednesday)

08:40-09:00 Registration
09:00-10:30 Session A-1 ACS
(HALL A) (Chair:)

1. Energy-aware Deadline-based Scheduling in IaaS Cloud with regard to the Available Memory
Sohrabi S, Moser I
2. Human Action Classification Using Multidimensional Functional Data Analysis Method
Cho Wanhyun, Park Soonyoung, Kim Sangkyoon
3. An EtherCAT Slave Design Using a Parallel Interface Based on ARM Cortex-M3
Trung Vien Tu, Jin Ho Kim, Kien Minh Le, Do Eon Lee, and Jae Wook Jeon
4. MODELING FOR SMART SUPPLY CHAIN: Interoperability, Visibility, and Sustainability
Kyeongrim Ahn, Sangwon Lim, Younggyo Lee
5. IEEE 802.1AS Time Synchronization Performance based on Ethernet AVB
Kim YongJu, Kim JinHo, Cheon BoMu, Jeon JaeWook
6. Design of Multi-Protocol Embedded System for Real-Time Ethernet and Fieldbus
Kim Tae-Won, Kim JinHo, Lee DoEon, Moon JunYoung, Jeon JaeWook

09:00-10:30 Session B-1 AIM
(HALL B) (Chair:)

The 2015 World Congress on Information Technology Applications and Services (World IT Congress 2015)
1. **Wireless Power Supply System**  
   Wang Zhao, Lim Eng Gee, Wang Chenyue, Leach Mark, Man Ka Lok, Park Jong Hyuk, Hsu Hui-Huang

2. **Unsupervised Perceptron Learning for Bilingual Lexicon Extraction with Synonym Vectors**  
   Kwon Hongseok, Seo Hyeong-Won, Cheon Minah, Kim Jae-Hoon

3. **Bilingual Multi-word Expressions Alignment by Constituent-based Similarity Score**  
   Seo Hyeong-Won, Kwon HongSeok, Cheon Minah, Kim Jae-Hoon

4. **An Adaptive Routing Mechanism based on Compressive Sensing for Underwater Sensor Networks**  
   Ishfaq Modassir, Hong Wooyoung, Kim Hyung Seok

5. **Time Series Bigdata Processing Mechanism of Digital Tachograph on Hadoop**  
   Lim Yoojin, Choi Eunmi

6. **Traffic Map Coverage Extension Mechanism with Nearly Real-Time Big Data Processing**  
   Cho Wonhee, Choi Eunmi

7. **Opportunistic Resource Shifting with Dummy Deallocations**  
   Cho Seungukwon, Chang Sungcheol, Han Youngnam,

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09:00-10:30  
**Session C-1**  
(HALL C)  
(Chair:)

1. 

10:30-10:40  
Coffee break

10:40-12:10  
**Session A-2 ACS**  
(HALL A)  
(Chair:)

1. **A Network Verification and Monitoring Method for Real-Time Ethernet using CANoe**  
   Lee DoEon, Kim JinHo, Kim Tae-Won, Moon JunYoung, Jeon JaeWook

2. **Smart Ordering System based on Hand Gesture Recognition**  
   Yeo Donghyeon, Xi Yulong, Song Wei, Cho Kyungeun, Um Kyhyun

3. **Model of CPU-intensive Applications in Cloud Computing**  
   Peng Junjie, Dai Yongchuan, Rao Yi

4. **A Procedural and Performance Analysis of DoIP through Simulative Assessment**  
   Moon JunYoung, Kim JinHo, Cheon BoMu, Lee YoungSeo, Kim Tae-Won, Lee DoEon, Jeon JaeWook

5. **A Visual Language for Rapid Prototyping of Real-time Web Game Server**  
   Yoo Hwan-Soo, Kim Seong-Whan

6. **Efficient RA-Hashed Structure for Approximate Similarity Search**  
   Zhou TieHua, Wang Ling, Ryu KeunHo

7. **Evaluation of Identification Rate for Simulated Mobile-Phone Recording Based on MPEG-7 Audio Signature Descriptors**
You Shingchern, Lin Yu-Chu

10:40-12:10  Session B-2 AIM
(HALL B)
(Chair:)

1. The Vision and Application of Next Generation 5G
   Hur Soojung, Park Yongwan
2. Vertical Segmentation and Geo-registration of Individual Building Images from Wide-baseline Panoramic Image Sequences using a Digital Map Reference
   Kim Hyungki, Han Soonhung
3. A Novel Approach for Multiple Moving Targets Detection and Noise Reduction
   Islam MdSaiful, Chong Uipil
   Huynh-The Thien, Le Ba-Vui, Lee Sungyoung, Yoon Yongik, Le-Tien Thuong
5. The GB-Index: A New Indexing Method for Complex Queries in Multimedia Databases
   Cha Guang-Ho
6. Improving Trust Based Recommender System By Mining User Comments on the Web
   Yang Sheng-Han, Paik Incheon
7. A Vision-based Hand Haptic Interaction for the Control of a Deformable Virtual Object in AR
   Chun Junchul, Lee Seonho

10:40-12:10  Session C-2 ACSA
(HALL C)
(Chair:)

1. Design of a Function for Tracing the Diffusion of Classified Information for File Operations with a KVM
   Fujii Shota, Yamauchi Toshihiro, Taniguchi Hideo
2. Lightweight Authentication Scheme for NFC mCoupon Service in IoT Environments
   Park Sung-Wook, Lee Im-Yeong
3. An Efficient Relay Selection Scheme based on Reinforcement Learning for Cooperative Cognitive Radio Networks
   Rahman MdArifur, Lee Young-Doo, Koo Insoo
4. A Simple User-classification Scheme for Cooperative Spectrum Sensing for Cognitive Radios
   Muhammad Usman, Insoo Koo
5. Transmit Power Optimization for Cognitive Radio User with Battery Leakage
   Tuan Pham-Viet, Koo Insoo
6. Host behavior characteristic description method against APT attack detection
   Moon Daesung
7. AMI design and TestBed using Intelligent Agents on the PLC Network
   Huh Jun-Ho
8. Sensor Scheduling-based Throughput Maximization for Cognitive Radio Networks
   Thanh-Tung Nguyen, Insoo Koo
12:10-13:30 Lunch break

13:30-14:30 Keynote Speech
(HALL A)
(Chair:)

14:30-14:40 Coffee break

14:40-16:10 Session A-3 ACS
(HALL A)
(Chair:)

1. Depth Skeleton based Control of the Virtual Simulator for Military Training
   Lee Soyeon, Park Sangjoon, Chung Kyoil, Cho Chungho
2. Detection of road direction indicators using MSER and template matching for vehicle black box system
   Kim JongBae
3. An Efficient scheme for motion estimation in MVC
   Yoon Hyosun, Kim Miyoung
4. Misbehavior Detection of Android Devices using the Logging System
   Oh Seokho, Ryu Yeonseung
5. An Auxiliary Log Area for In-Page Logging Scheme
   Van Jaekwang, Jin Rize, Kim Sungsoo, Chung Tea-Sun
6. Optimal Management of Desktop as a Service based on Cloud Computing
   Kim Dae Won, Moon Jong Bae, Oh Soo Cheol, Kim Seong Woon, Kim Hag Young
7. Building Concept Networks by Formal Concept Analysis
   Kim Han-joon, Hong Ki-joo

14:40-16:10 Session B-3 ACS
(HALL B)
(Chair:)

1. Filter versus Wrapper Approaches: Predictor Selection of Medication Adherence in Chronic Diseases
   Kang Bo-Yeong, Lee Jaesung, Kim Dae-Won
2. Music Categorization using Incomplete Social Tags
   Lee Jaesung, Kim Dae-Won
3. A Design of Federated SPARQL Engine for Temporal Query Processing
   Ahn Jinhyun, Eom Jae-Hong, Nam Sejin, Zong Nansu, Im Dong-Hyuk, Kim Hong-Gee
4. An Approach to Common Northbound Interfaces of SDN Controllers using the DDS Middleware
   Cho Sungryung, Chung Sungmoon, Lee Wooyeob, Joe Inwhee, Park Jeman, Lee Soohyung, Kim Wontae
5. Advanced Smart Metering Infrastructure based on Multichannel Utilization
6. **Network Traffic Classification based on Signature Tree**  
Choi Jihyeok, Kim Seongwoon, Kim Hakyoung, Kim Sunwook

7. **Synthesis and Design of an Optimized 5.2 GHz Microstrip Antenna Using Bio-inspired Genetic Algorithm**  
Ezuma Martins, Pyun Jae-Young

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14:40-16:10 **Session C-3**  
(HALL C)  
(Chair:)

1. **Author identification framework based on emails and affiliations**  
Jangwon Gim

2. **Patent-centric type classification of mutual relations by extracting concept of Goal and Approach**  
Jangwon Gim

3. **Scalable distributed RDF Store for managing billions of knowledge data**  
Jung-Ho Um

4. **Study on Semantic Complex Event Processing Model for Analyzing Research Activities**  
Jung-Ho Um

5. **Real-time Fidelity Enhancement for Entity Disambiguation**  
Taehong Kim

6. **Data Integration for Efficient Disaster Risk Management Focused on Ocean Atmosphere Climate Information**  
Mi-Nyeong Hwang

7. **Optimizing Sales Big Database Scheme for Building Marketing Strategy**  
Seungkyun Hong

8. **Design of a social network based personal health service for Korean medicine**  
Hyunchul Jang, Jinsoo Seo, Sanghyun Kim, Boryung Nam, Sang-Kyun Kim

9. **Wireless Sensor Network Localization Using Bayesian MDS**  
Shuo Xu, Lijun Zhu, Hanmin Jung

10. **Development of Multidimensional Analysis System for Bio-pathways**  
Dongmin Seo, Min-Ho Lee

11. **DDS Topic Description for Integrating Heterogeneous Data/Events/Services of Internet of Things**  
Hyung-Jun Yim, Dongmin Seo, Hanmin Jung, Kyu-Chul Lee

12. **Reliable Semi-automatic Method for Constructing a Named Entity Dictionary from Wikipedia**  
Yeongkil Song, Seokwon Jeong, Harksoo Kim

13. **Relation Extraction Method Using One-Class and Multi-Class Classification Rules with Distant Supervision**  
Maengsik Choi, HyunGoo Lee, Harksoo Kim

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16:10-16:20 **Coffee break**

16:20-18:20 **Session A-4**  
(HALL A)
1. An Efficient and Shareable ID-Based Encryption with Keyword Search in Cloud Storage  
   Lun-Pin Yuan, En-Wu Mu, Chi-Yao Weng, Ray-Lin Tso, Hung-Min Sun  

2. A Study on White Balance Control for Analog Holography  
   Byoung-Soo Koh, Seong-Hee Hong  

   Computing Environment  
   Cho min-hee, Do Kyounghwa, Jang Eun-Gyeom  

4. Heuristic scheduling for real-time stream mining in personal health monitoring systems  
   Wei Liang, Bo Wu, Qun Jin, Yonghua Xiong, Min Wu  

5. Reducing Memory Controller Transaction Queue Size in Scalable Memory Systems  
   Mario Donato Marino, Kuan-Ching Li  

6. SPAC: Special Point Accelerating Classifier for Finger-vein Matching  
   Yu-Chun Cheng, Bo-Chao Cheng, Huan Chen, Yao-Chung Fan  

7. Virtual Customer Relationships on Facebook Brand Community and Re-Purchase Intentions  
   Ching-Wei Ho, Yu-Bing Wang  

8. Get Something Useful – Ranking Mechanism for e-Learning Resources  
   Neil Y. Yen, Jason C. Hung  

9. The Application of Optimal Step-Size Sequence Mechanism for Stochastic Gradient  
   Algorithms Based DS-CDMA Receiver in Multi-path Environments  
   Hsuan-Fu Wang, Yu-Wei Chan, Jui-Chi Chang  

16:20-18:20  
Session B-4  
(HALL B)  
(Chair:)  

1. PLC Monitoring and Protection for SCADA Framework  
   AlShemeili Ahmed  

2. Four-Joint Motion Data based Feature Extraction and Classification of Posture  
   Kyeong-Ri Ko, Seung-Hoon Chae, Daesung Moon, Chang Ho Seo, Sung Bum Pan  

3. Secure network camera environment design using a hierarchical group key mechanism  
   Jungho Kang, Jong Hyuk Park  

4. Scaling Out Hadoop for Big Data Processing in Trans-Regional Network Environment over  
   ViNe  
   Rui Xuhua, Ku Mino, Cho Nayun, Kim Baul, Lim Damsub, Min Dugki  

5. Dynamic Reconfigurable IoT Gateway Framework  
   Rakhimov Rustam, Min Dugki  

6. Implementation of Cloth Simulation using OpenCL on Mobile Device  
   JaeHong Jeon, Min Hong, SeungHyun Lee  

7. Group Authentication and Authorization Management Scheme in Distributed File System for  
   Secure Cloud Computing  
   Hyungjoo Kim, Moon-seong Jun, Jong Hyuk Park  

8. AER-ULTS: Audio Emotion Recognition-based User location tracking System  
   Jae Woong Joo, Won Min Kang, Jong Hyuk Park  

9. Handover Authentication Scheme using Bloom Filter for SMART Highway  
   Kim Su-Hyun, Lee Im-Yeong
10. Design and Implementation of the Base technology for Realtime Smart Metering System using PLC
   Jun-Ho Huh, Dong-Geun Lee, Kyungryong Seo

11. Design and Testbed of Graphic-based Server Operation system using Virtualization Technology
   Jun-Ho Huh, Kyungryong Seo

16:20-18:20  Session C-4 ACS, AIM  (HALL C)  
(Chair:)

1. Design and Implementation of Smart TV Hybrid Service based on HTML5
   Lee SangYun, Park Sang Taick
2. CAN FD-Busload Analysis using the CANoe
   Nguyen QuangVinh, Jeon JaeWook
3. Performance Analysis of the CAN FD based DeviceNet
   Kim JinHo, Kim Tae-Won, Jeon JaeWook
4. Design and Implementation of an Open API-based Lifelog Mashup: Wellness System
   Joe Dong-Wan, Park Seok-Cheon
5. Hybrid passive copy paste forgery detection algorithm
   Ayalneh Dessalegn Atnafu, Kim HyoungJoong, Choi YongSoo
   Song Wei, Wu Dong, Xi Yulong, Cho Seoungjae, Cho Kyunghun, Um Kyhyun
7. User Requirements for Mobile Hospital Applications: An Evaluation Grid Approach
   Park Jiwon, Kim Ja-Hee, Park Eunji
8. Wellness Contents Recommendation for Mental and Physical health using EM model
   Jung Yuchae, Yoon Yongik
9. Implementation of power off recovery scheme for block mapping FTL
   Chung Ji-Hwan, Chung Tae-Sun
10. A Rapid Neighbor Discovery Framework for Cognitive Radio Networks
    Mahmud Adil, Lee Young-Doo, Koo In-Soo

19:10-21:00  Banquet [HALL-A]
Day 3, Feb. 26, 2015 (Thursday)

09:00-12:00  Organizing Committee Meeting II
13:00-15:00  Executive Meeting II - Organized by World IT 2015
16:00-17:00  Organizing Committee Meeting III
Conference Venue

Hyatt Regency Jeju

114, Jungmungwangwang-ro 72 beon-gil, Seogwipo-si
Jeju Special Self-Governing Province, South Korea, 697-130

Tel: +82 64 733 1234
Fax: +82 64 732 2039
Web: http://jeju.regency.hyatt.com/
Email: jeju.regency@hyatt.com

From Jeju International Airport, take Jungmun express road south and follow signs leading to Jungmun. When coming to the intersection with Korea Power Station on the right hand side, turn right and continue on main road until the Cheju island hotel sign is visible. Follow the sign and it will lead you to the Hyatt Regency Jeju hotel.

Distances to the hotel:

- Jeju International Airport, approximately 40 minutes by car
- Jungmun Beach, walking distance
- Teddy Bear Museum, walking distance
- Jungmun Golf Club, walking distance
- Chonjeyon Waterfall, walking distance