

PROGRAM SCHEDULE FOR WORLD IT CONGRESS 2018

Day 1, Feb. 20, 2018				
Time	Min	HALL -A	HALL B	HALL C
10:00-12:00	120	Session A-0 ANMT 2018 (Closed Workshop) Chair : JoonMin Gil		
13:00-15:00	120	Organizing Committee Meeting (Only for Invited Members)		
16:00-17:30	90	Local Arrangement Committee Meeting (Only for Invited Members)		

Day 2, Feb. 21, 2018				
Time	Min	HALL -A		
08:40-09:00	20	Registration		
09:00-10:30	90	Session A-1 Chair : R. Young Chul Kim	Session B-1	Session C-1
10:30-10:40	10	Coffee Break		
10:40-12:00	80	Session A-2 Chair : Soohyun Cho	Session B-2	Session C-2
12:00-13:10	70	Lunch		
13:10-14:00	50	Keynote I: Internet of Battlefield Things: Challenges and Research Opportunities Kim-Kwang Raymond Choo, Ph.D. Professor at the University of Texas at San Antonio, USA Chair: Kyung-Soo Lim		
14:00-14:10	10	Coffee Break		
14:10-15:30	80	Session A-3	Session B-3	Session C-3 HRH 2018 (Closed Workshop) Chair : Jun-Ho Huh
15:30-15:40	10	Coffee Break		

15:40-17:00	80	Session A-4 Chair : Sangkee Suk	Session B-4 VASSI 2018 (Closed Workshop) Chair : Hwankuk Kim	Session C-4 ISWP 2018 (Closed Workshop) Chair : Yunsick Sung
18:00		Keynote II Banquet (HALL B)		

Day 3, Feb. 22, 2018		
Time	Min	HALL -A
10:00-12:00	120	Session A-5 IWIoE 2018 (Closed Workshop) Chair : Daewon Lee
13:00-15:00	120	Executive Meeting - Organized by World IT 2017 (Only for Invited Members)
16:00-17:30	90	Organizing Committee Meeting II (Only for Invited Members)

1. A paper presentation should be made by one of authors of the paper for 20 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 7 laptops running the Adobe Reader and Microsoft Office for paper presentations will be prepared. Please prepare for your presentation.

**DETAILED SCHEDULE FOR
THE 2018 WORLD CONGRESS ON
INFORMATION TECHNOLOGY, APPLICATIONS
AND SERVICES**

(WORLD IT CONGRESS 2018)

Day 1, Feb. 20, 2018 (Tuesday)

10:00-12:00 Session A-0 ANMT 2018 (Closed Workshop)
(HALL A)
(Chair: JoonMin Gil)

- 1. Application of Weighted Bayesian Algorithm in Spam Messages Detection**
Quanzhu Yao, Huimin Fan, Rong Fei, Zan Bai, Jin Wang, Yuhui Zheng
- 2. End to End Performance Maximization through Data Transfer Node in a High-speed Network**
Jongseon Park, Jinhyung Park, Seunghae Kim, Minki Noh
- 3. How to detect and respond to the malicious website modified by a drive-by download attack**
Seung-Yup Jun, Young-Ho Shin, Hyuk-ro Lee
- 4. IT Security compliance issues in public sector and response plans**
Gwang-il Ju, Jinhyung Park, Wanyoung Heo, Hark-Soo Park
- 5. An Intelligent Residual Resource Monitoring Scheme in Cloud Computing Environments**
JongBeom Lim, HeonChang Yu, Joon-Min Gil
- 6. Accelerated Bulk Memory Operations on Heterogeneous Multi-Core Systems**
JongHyuk Lee, Weidong Shi, JoonMin Gil
- 7. Automatic Enhancement of Spatial Resolution to Local Area for Satellite Imagery Using Projection Transform**
Jea hee kim, Wanyoung Heo, Jinhyung Park

13:00-15:00 Organizing Committee Meeting I

16:00-17:30 Local Arrangement Committee Meeting

Day 2, Feb. 21, 2018 (Wednesday)

08:40-09:00 Registration

09:00-10:30 Session A-1 World-IT 2018
(HALL A)
(Chair: R. Young Chul Kim)

- 1. Recovery Techniques for Bigdata in Distributed File Systems**
Dong-Jin Shin, Ho-geun Lee, Jong-min Eun Sung-Hoon Cho, Jeong-Joon Kim
- 2. Visualizing Reusable Code patterns based on Object-Oriented Reusability Metrics**
Eun Young Byun, R. Young Chul Kim
- 3. An Estrus Detection Method based on Impulse and Fingerprint Indoor Location Information**
Jemin Song, Bong-Ki Son, Keun Ho Ryu
- 4. A novel Digital Auscultation Method using a Skin Image**
Sang-Il Jo, Kwang-Seok Hong
- 5. Timeliness Guarantee Method of Electronic Record Based on Digital Continuity**
Yongjun Ren, Yuyi Huo, Xiaohua Wang, Jin Wang
- 6. Design of Blockchain-Based Decentralized Integrity Preservation In Digital Investigation**
Jung Hyun Ryu, Jong Hyuk Park
- 7. Experimental Study on the Impact of Electrical shock in Vehicle Wireless Charging Environments**
Taejun Park, Kwang-il Hwang

09:00-10: 30 Session B-1 World-IT 2018
(HALL B)

- 1. A Performance Model for CAN over Noisy Channels**
JinYeong Um, Jongsuk Ahn
- 2. Design of mutual authentication protocol among NFC devices using NDEF digital signature**
Seung-Su Yang, Seung-Ho Han, Hyung-Joon Kim, Seok-Cheon Park
- 3. A Relay-Selection Technique Based on Near Future Location to Solve Broadcast Storm Problem in Vehicle Ad-hoc Networks**
Tae-Hwan Choi, Jong-Suk Ahn, Jin-Yeong Um
- 4. One Lightweight Security Authentication Protocol Based on Static ID Mechanism**
Ying Zheng, Longhai Jin, Yu Jiang, Hongtao Bai, Lili He
- 5. A Link Prediction Algorithm Based on Information Propagation in Uncertain Protein-protein Interaction Network**
Wei Liu, Liangyu Ma, Ling Chen, Jin Wang, Yili Wang
- 6. KEPCO Energy IoT Service Solution: Real-time Radiometric Thermal Data Analysis Using Machine Learning Algorithms**
Aaron Nichie, Sukyung Kang, Younghyun Kim, Myung-hye Park, Honggeun Kim
- 7. Eye-tracking and SNS Analysis-based User Modeling for Recommendation Reflecting Personal Preference**

Hyejin Song, Nammee Moon

09:00-10: 30 Session C-1 World-IT 2018
(HALL C)

- 1. Differential Privacy Protection Based on Sensitivity Control**
Chunyong Yin, Yuhang Zhu, Jin Wang, Suk-min Kang, Jeong-Uk Kim
- 2. SMS-based Data base Security System for smart hospital**
Byung Wook Kwon, Jong Hyuk Park
- 3. A Cost optimization scheme using advanced attack graph for efficient security risk mitigation**
Jun Young Park, Eui-Nam Huh
- 4. A Study on Malicious Code Similarity Analysis Using API Call Sequence**
Kangsik Shin, Yoojae Won
- 5. Personalized (α, l)-Anonymity Method Based on Granularity Division**
Chunyong Yin, Shilei Ding, Jin Wang
- 6. Improved Deep Packet Inspection Technology in Data Stream Detection**
Chunyong Yin, Hongyi Wang, Jin Wang, Suk-min Kang, Jeong-Uk Kim
- 7. Code-based Preservation Mechanism of Electronic Record in Electronic Record Center of Cloud Storage**
Yongjun Ren, Zixuan Shen, Yaping Cheng, Jin Wang

10:30-10:40 Coffee break

10:40-12:00 Session A-2 World-IT 2018
(HALL A)
(Chair: Soohyun Cho)

- 1. Based on priority data with Adaptive IFS Channel Hopping in IoT Environment**
Gayoung Kim, Min-Su Seok, Jin-Yeong Um
- 2. Design of Improved Data Quality Management System for Providing Reliable Data**
Min-Hyung Park, Hyung-Joon Kim, Seung-Ho Han, Seok-Cheon Park
- 3. Incentive Mechanism of Data Storage for Wireless Sensor Network**
Yongjun Ren, Sai Ji, Jin Wang, Suk-min Kang, Jeong-Uk Kim
- 4. Design of Movie Information Service System Based on Augmented Reality**
Seung-Ho Han, Seung_su Yang, Hyung-Joon Kim, Seok-Cheon Park
- 5. A Method to Identify the High Significance Input Factors in Strawberry Growth and Production**
Vasanth Ragu, Myeongbae Lee, Salman Rahman, Jangwoo Park, Yongyun Cho, Changsun Shin
- 6. An Application of linear regression and Correlation for the prediction of Strawberry Growth**
Venkatesan Saravana Kumar, Saraswathi Sivamani, Myeongbae Lee, JangWoo Park, Changsun Shin, Yongyun Cho
- 7. Multithreaded Execution Method on Non-Volatile Memory File System for Object Storage and Cloud/Data-center Storages**
Jung-Geun Kim, Sang-Jae Nam, Su-Kyung Yoon, Shin-Dug Kim

10:40-12:00 **Session B-2 World-IT 2018**
(HALL B)

- 1. 2-Hop Label Size Reduction for Directed Acyclic Graph**
Jinhyun Ahn, Dong-Hyuk Im
- 2. Analyzing Big Data Issues in IIoT Environment Using Topic Modeling**
Ji Yeon Cho, Hye Sun Lee, Bong Gyou Lee
- 3. A Signal CFAR Detection Algorithm Based on Generalized S Transform**
Wang Jie, Lin Yun, Yu Xiaowan
- 4. Fuzzy Rule Mining by Clustering Approach to Estimate the Difficulty of Programming Problems**
Chowdhury Md Intisar, Yutaka Watanobe
- 5. Motion Adaptive Recursive Denoising Filter for Low-dose X-ray Fluoroscopy**
Sang Wook Park, Hui Jin Joo, Sung Suk Oh, Jeongwoo Sohn, Soowon Seo
- 6. Textile Fabric Defect Detection Via Sparse Subspace Clustering**
Peng Li, Junli Liang, Minghua Zhao, Xubang Shen, Jin Wang
- 7. Personalized Diet Recommendation Algorithm Based on Probabilistic Matrix Factorization with Adaboost for Diabetes**
Hongtao Bai, Xuan Li, Jin Wang, Ming-hao Zhao, Lili He, Yu Jiang
- 8. A Novel Feature Clustering and Weighting for Sentiment Estimation**
Yili Wang, Jin Wang, Hee Yong Youn

10:40-12:00 **Session C-2 World-IT 2018**
(HALL C)

- 1. A workqueue based interrupt handling mechanism for improving delay time of a real-time operating system**
Tae-eun Yoon, Jaeho Hwang
- 2. Design and Implementation of Smart-Mirror supporting Apparel Image Collection Function and Costume Matching Recommendation Service**
Hyeon-woo An, Jae-hyeon Cho, Ki-hoon Lee, Namme Moon
- 3. Design and Implementation of Board Management Controller for High Performance Computing**
Cheol Shim, Min Choi
- 4. Cognitive Model for Sentimental Service Based on Multi-Modal Sensing**
Svetlana Kim, YongIk Yoon
- 5. A Secure and Efficient KSI System based on Threshold-Signature for Electronic Document Protection**
Gyeong-Jin Ra, Im-Yeong Lee
- 6. Parallel Hybrid Algorithms for Tridiagonal Equations on a GPU**
Xuan Li, Longhai Jin, Ximing Li, Yu Jiang, Hongtao Bai
- 7. Improved Superpixel based Graph Kernel Method for Hyperspectral Classification**
Chenyang Ma, Yunjie Chen, Yili Wang, Le Sun
- 8. Plan Recognition Method based on Intuitionistic Fuzzy Theory and Event-Driven**
Xiaofan Wang, Lei Wang, Yuhui Zheng, Jin Wang

12:00-13:10 **Lunch break**

13:10-14:00 **Keynote Speech**

(HALL A)

(Chair: Kyung-Soo Lim)

“Internet of Battlefield Things: Challenges and Research Opportunities”

Kim-Kwang Raymond Choo, Ph.D.

The University of Texas at San Antonio, USA

14:00-14:10 **Coffee break**

14:10-15:30 **Session A-3 World-IT 2018**

(HALL A)

1. **Balancing Between Replication and Deduplication for Flash Storage Systems**
Seung-Ho Lim
2. **A Study on the Data Analysis of Environmental Sensors Using Machine Learning Algorithms**
Kyong-Hee Lee, Hui Kim, Do-Hyun Kim
3. **A Low Cost IoT-based Traceability System for Perishable Food Supply Chain**
Ganjar Alfian, Muhammad Fazal Ijaz, Muhammad Syafrudin, Jaeho Lee, Jongtae Rhee
4. **An Internet of Things System Architecture for Aiding Firefighters in the Scene of Disaster**
Hyesun Lee, Sang Gi Hong, Myungham Bae, Kyo-Hoon Son, Mingi Jeong, Kang Bok Lee
5. **A New Anomaly Detection Method of Spectrum Based on Deep Neural Networks**
Q. S. Feng, Y. B. Zhang, Z. Dou, Y. Lin, J. Wang

14:10-15:30 **Session B-3 World-IT 2018**

(HALL B)

1. **A Study of Nuclear cyber security regulation guideline inspection automation and information providing list derivation using ICT vulnerability check tool**
Jae-hong Kim, Yang-seo Choi, Jung-chan Na
2. **Consensus Building Algorithm with BFT for Permissioned Blockchain**
Takumi Yamashita, Yutaka Watanobe
3. **Blockchain-based Multiple AAA System in Edge Computing for IoT Networks**
N. Y. Kim, S.K. Suk, J. H. Park
4. **Detection scheme of man-in-the-middle attack on smart devices**
Seung-Hak Kim, Sang-Jun Yoon, Bo-Geun Jang, Ki-Hyun Jung
5. **Design of a De-identification Framework for Utilizing Various Clinical Research Data in a General Hospital**
Jae Dong Lee, Jipmin Jung, Phillip Park, Ki Chung Ryu, Seunghyun Chung, Hyosoung Cha
6. **Undetectable malicious attack using scheduler freezing in operating system**
Soung-Ho Choi, Kyeong-Joo Jung, Ki-Hyun Jung

14:10-15:30 Session C-3 HRH 2018 (Closed Workshop)

(HALL C)

(Chair: Jun-Ho Huh)

- 1. Case Studies on the Measures on Efficient Processes in Overseas Procurement of Military Supplies**
YK Jung, Jun-Ho Huh
- 2. Study on Policing for Open Innovation in Defense Science and Technology: Focused on the government-funded research institutions**
YK Jung, Jun-Ho Huh
- 3. A Study on the effects of Code Review on Software Quality based on an environmental Case Study of Google and Samsung Electronics' Code Review**
Wonseop Lee, Jun-Ho Huh
- 4. Efficient LMS System Development and Its Test Bed for e-Learning and Mobile Based Learning**
Sooyoung Jung, Jun-Ho Huh, Seung-il Moon
- 5. Design System and Method of Server Based Firefighting Sprinkler Equipment**
Sooyoung Jung, Jun-Ho Huh, Seung-il Moon
- 6. A Study on the Device that Controls Power Dispersion of Distribution Line and Its Method**
Sooyoung Jung, Jun-Ho Huh, Seung-il Moon
- 7. A Study on the Remote Monitoring of Distribution Line for Micro Grid**
Sooyoung Jung, Jun-Ho Huh, Seung-il Moon
- 8. The Social Coding of Software Development: Focused on the Case Examples of Git-Hub and Stackoverflow**
Wonseop Lee, Jun-Ho Huh
- 9. Journalism Based Summary Algorithm in Python**
Wonseop Lee, Jun-Ho Huh

15:30-15:40 Coffee break

15:40-17:00 Session A-4 World-IT 2018

(HALL A)

(Chair: Sangkee Suk)

- 1. An Application Case of Process Asset Library (PAL) for Small & Medium Sized Software Companies**
So Young Moon, Bo Kyung Park, Woo Sung Jang, R. Young Chul Kim
- 2. A Systematic Method to Design Automation for Enterprise System based on .NET with MDA**
Deuk Kyu Kum
- 3. Signal Outages of CSMA/CA based Wireless Networks with Different AP Densities**
Soohyun Cho
- 4. An approach to enhance data transfer performance utilizing a DTN in cloud environment**
Wontaek Hong, Jeonghoon Moon, Woojin Seok, Jinwook Chung
- 5. Time Synchronization Method for LPWA Using Simple Sync Procedure in IoT Wireless Network**
Sunghwan Kang, Minseok Seo, Joonyoung Eom, Bong-Hwan Lee

15:40-17:00 Session B-4 VASSI 2018 (Closed Workshop)
(HALL B)
(Chair: Hwankuk Kim)

- 1. Study on Binary Auto-Analysis Tools for Detecting Vulnerability**
Soojin Yoon, Geonbae Na, Taeun Kim, Hwankuk Kim
- 2. A Study on Automatic Patch Model to Respond to Memory Corruption Vulnerabilities**
Geonbae Na, Sanghwan Oh, Taeun Kim, Jungho Kang, Hwankuk Kim
- 3. Design of Hybrid Fuzzing System Based on Software Complexity Metrics**
JeeSoo Jurn, TaeEun Kim, HwanKuk Kim
- 4. A study on improvement of the existing vulnerability assessment system for the IoT environment**
Daeil Jang, Eunhye Ko, HwanKuk Kim
- 5. Keyword Generation for Vulnerability Information Using Multiple Topic Models**
Sarang Na, Taeun Kim, Hwankuk Kim
- 6. A study on a scanning engine for discovering vulnerable Internet-connected devices**
Hwankuk Kim, Taeun Kim, Daeil Jang

15:40-17:00 Session C-4 ISWP 2018 (Closed Workshop)
(HALL C)
(Chair: Yunsick Sung)

- 1. Cognitive Decision Engine Based on Binary Particles Swarm Optimization with Non-linear Decreasing Inertia Weight**
Chengzhuo Shi , Zheng Dou, Yun Lin
- 2. Real-time 3D Reconstruction for Objects using Sparse Point Clouds**
Seoungjae Cho, Kyungeun Cho
- 3. Collected Data Analysis-based RSSI Revision Method for UAVs**
Woonam Kim, Yunsick Sung
- 4. A Ground Smoothing Method based on Median Filter in 3D Environment Reconstruction System**
Mingyun Wen, Seoungjae Cho, Kyungeun Cho
- 5. Efficient Hierarchical Scheme for Sensor Data Management on Internet of Things with Cloud Computing**
Seungchul Kim, Hyun-Woo Kim, Gangman Yi, Doo-Soon Park, Young-Sik Jeong
- 6. Method for Object Removal from Ground Mesh and Billboard for Multi-sensor Fusion System**
Mingyun Wen, Seoungjae Cho, Kyungeun Cho

18:00 Keynote II
Banquet [HALL-B]

Day 3, Feb. 22, 2018 (Thursday)

10:00-12:00 Session A-5 IWIoE 2018 (Closed Workshop)
(HALL A)
(Chair: Daewon Lee)

- 1. Cooperative Situation Awareness for User Authentication Using Smart Wearable**
Seung-Hyun Kim, Soo-Hyung Kim, Kyung-Soo Lim
- 2. Parallel Hough Transform Method Based on GPU**
Qianlong Yang, Lili He, Longhai Jin, Ting Li, Hongtao Bai
- 3. Job Submission Manager for Modeling and Simulation in Integrated Computing Environment**
Daeyong Jung, Myungil Kim, Jung-ha Lee, Han-Yee Kim, Daewon Lee
- 4. Context-Aware Multimodal Authentication for FIDO Authenticator**
Seung-Hyun Kim, Jong-Hyuk Roh, Seok-Hyun Kim, Soo-Hyung Kim, Kyung-Soo Lim
- 5. A Survey on Mobile Edge Cloud Computing**
Thanongsak Xayasouk, DaeWon Lee, HwaMin Lee
- 6. An Implicit Privacy Risk Assessment Based on Accumulated Exposure of Private Information for Unmodified Android**
Seung-Hyun Kim, Soo-Hyung Kim, Kyung-Soo Lim
- 7. Data deduplication system in cloud storage environment**
Won-Bin Kim, Im-Yeong Lee
- 8. A Functional Consideration for Intelligent Video Surveillance using Cloud Computing**
Kyung-Soo Lim, Jong Wook Han, Geon-Woo Kim

13:00-15:00 Executive Meeting - Organized by World IT 2018

16:00-17:30 Organizing Committee Meeting II

Conference Venue



Booyoung Jeju Hotel

Booyoung Hotel & Resort Jeju
222, Jungmungwangwang-ro, Seogwipo-si,
Jeju Special Self-Governing Province, South Korea

Tel: +82-64-731-5500

Fax: +82-64-731-5555

Web: <http://www.booyoungjejuhotel.com/>

