

2017 Waseda-UKM-UMS-Hanyang IT Workshop

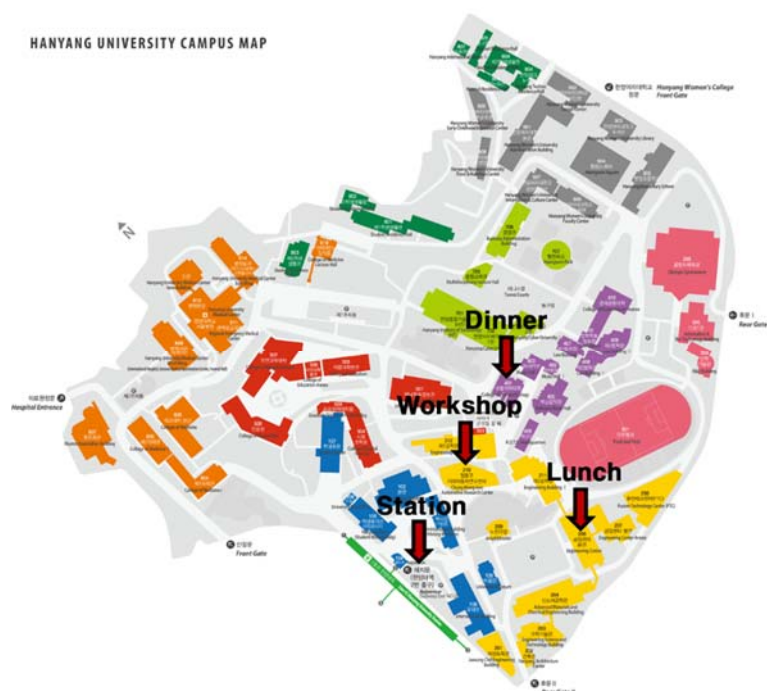
(Joint Workshop Japan, Malaysia & Korea)

Organized by College of Engineering, Hanyang University, Seoul, Korea,
Information Science & Technology, University Kebangsaan Malaysia (UKM), Computing and
Informatics, University Malaysia Sabah (UMS) and Computer Science & Communication
Engineering, Waseda University, Tokyo, Japan

Dec. 1 & 2, 2017

(Local arrangements made by Department of Computer Science, Hanyang University)

This annual Workshop has been held since 2008. Following the successful workshops, this workshop will be held at Hanyang University, Seoul, Korea, Dec. 2, 2017. This workshop has been provided opportunities for both of the universities to share their knowledge and experiences. On top of that, the faculty members can exchange academic information and foster international joint projects by meeting each other in person.



Final Program

Date: Dec. 1

Dec. 1	Topic	Location
18:00 – 20:00	Researchers' Networking Session	(President Hotel near Seoul City Hall)

Date: Dec. 2

Opening Ceremony (Room Conference Hall, Chung mong-koo Research center:)

Time	Conference Hall	Speaker(s)
9:00 – 9:30	Registration	Jin Seek Choi
9:30 – 9:40	Opening Ceremony	Jong-il Park, Takuro Sato. Yong jin Park & ROSILAH Hassan
9:40 – 10:10	Introduction to each University	Waseda, UMS, UKM
10:10 - 10:55	Industry Revolution 4.0: issues and challenges	Prof. Ag Asri Bin Ag Ibrahim

Time	Conference Hall	Room No.103	Room No.104
11:00 – 12:30	Session A-1 NAKAZATO / HIDENORI MR (Waseda)& Jechang Jeong (HYU)	Session B-1 MORI / TATSUYA MR (Waseda) & Jongwoo Lim (HYU)	Session C-1 Sahran/Shanorbanun (UKM) & Ag Asri Bin Ag Ibrahim (UMS)
1:00-2:00	Play ground	Tour (Labs)	Coffee
2:00 – 3:30	Session A-2 Hassan/Rosilah Dr. (UKM) & Hyungsoo Jung (HYU)	Session B-2 KAMEYAMA / WATARU MR (Waseda) & Taesoo Kwon (HYU)	Session C-2 SHIMAMOTO / SHIGERU MR (Waseda) & Yongjun Park (HYU)
4:00 – 5:30	Session A-3 SATO / TAKURO .MR (Waseda) & Heejin Park (HYU)	Session B-3 Arshad/Haslina (UKM) & Euisun Jang (HYU)	Session C-3 Nisar/Kashif Dr. (UMS) & Sang-Wook Kim (HYU)

Dec. 2	Human Ecology building 7F Faculty Club	Location
5:50 – 6:00	Introduction to each University	Hanyang University
18:00 – 20:00	Researchers' Networking Session	Hanyang University
Panel: Eunok Paek, Hidenori Nakazato . Yong jin Park & ROSILAH Hassan		

Opening Ceremony (Conference Hall, Chung Mong-Koo Automotive **Research Center** Chair:)

Time	Topic	Speaker(s)
9:00 – 9:30	Registration	Jin Seek Choi
9:30 – 9:40	Opening Ceremony	Jong-Il Park
9:40 – 10:10	(Introduction to each University)	
10:10 - 10:55	Industry Revolution 4.0: Issues and Challenges	Prof. Ag Asri Bin Ag Ibrahim

Track A: Computer Science and Engineering (Conference Hall)

Session A-1: Chairs (NAKAZATO / HIDENORI (Waseda)& Jechang Jeong (HYU)

Conference Hall, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
11:00 – 11:12	Information-centric oriented network service	WEN / ZHENG
11:12 – 11:24	A Framework for Estimating Execution Times of IO Traces on SSDs	Yoonsuk Kang, Yong-Yeon Jo, Jaehyuk Cha, Wan D. Bae and Sang-Wook Kim,
11:24 – 11:36	A game-theory based Green Information Centric Networking model for Future Internet	NGUYEN / NGOC QUANG
11:36 – 11:48	Enhanced Data Transmission for Big Data Analytics	Asrul Asat
11:48 – 12:00	Congestion Control in Information-Centric Networking	SUKJAIMUK / RUNGROT
12:00 – 12:12	Region based extent mapping technique for reducing the mapping table in eMMC	Seungsu Baik , Jaehyuk Cha
12:12 – 12:24	Named-Node Networking (3N) Design and Implementation Approach	QI / XIN

Lunch (12:30 – 14:00, Lunch Box): Rooms 416 & 701 at Engineering Center Building

Session A-2: Chairs (**Rosilah Hassan** (UKM) & Hyungsoo Jung)

Conference Hall, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
14:00 – 14:12	Demonstrating name data networking with dynamic CDN	SAPKOTA / MAHENDRA
14:12 – 14:24	Accelerating Concurrent, Durable File I/O via	Hyeongwon Jang and Hyungsoo

	a Non-Volatile Buffer	Jung
14:24 – 14:36	Push-based Node Name Network of Things for Healthcare	HUMRAZ / OMID JAN
14:36 – 14:48	Evaluation of the data transmission by using CCN	MURATA / KAZUNORI
14:48 – 15:00	Naming Scheme of Disaster Monitoring System Based on ICN Network Using NLP Machine Learning	NOZAKI / DAICHI
15:00 – 15:12	Systematic Comparison of False-Discovery-Rate-Controlling Strategies for Proteogenomic Search Using Spike-in Experiments,	Jonghun Park and Eunok Paek
15:12 – 15:24	Naming Scheme Using Machine Learning Method for Disaster Monitoring System Based on ICN	MOCHIDA / TORU

Coffee Break (15:30 – 16:00, Hallway 5F)

Session A-3: Chairs (SATO / TAKURO (Waseda) & Heejin Park (HYU)

Conference Hall, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
16:00 – 16:12	Contents download on car and portable terminal by using 3N	SANADA / KENTA
16:12– 16:24	Efficient GPU multitasking with latency minimization and cache boosting	(Yongseung Yu), Jiho Kim, Minsung Chu, and Yongjun Park
16:24 – 16:36	WI-SUN communication with plural devices	AIZAWA / RYOTA
16:36 – 16:48	3D Positioning Algorithm Based on Multiple Quasi-Monostatic IR-UWB Radar Sensors	Jeong Woo Choi, Sung Ho Cho
16:48 – 17:00	CDN-ICN combined content delivery service	KAMACHI / RIO
17:00 – 17:12	Integrating Face and Motion Recognition for Real-time People Counting System based on ICN	DU / YING SHUANG .MS
17:12 – 17:24	HRC: Hybrid Reference Counting for Manycore Scalable Paging	Yeonjin Noh, Seongbae Son, Youjip Won, Jongmu Choi

Track B: Information and Communications (Room 103, Chung Mong-Koo Automotive **Research Center**)

Session B-1: Chairs (MORI / TATSUYA (Waseda) & Jongwoo Lim (HYU)

Room 103, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
11:00 – 11:12	A New Smartphone Authentication Scheme Using Handwriting Recognition	JING / PEI QING .MS
11:12 – 11:24	Color Correction for Uniform Illumination using Multispectral Relighting	Kyudong Sim and Jong-II Park
11:24 – 11:36	How cultural differences affect the habits of password creation?	MORI / KEIKA .MS
11:36 – 11:48	An Analysis on Correspondence of User Emotion Classification by Bio-signals with Questionnaire Response while Video Watching	FU / YING
11:48 – 12:00	Empirical Study of Abandoned Internet Resource Inside Android Applications	PARIWONO / ELKANA GETALOID
12:00 – 12:12	Cybersickness and full body motion capture technologies	Changyeol Choi, Joohee Jun, Mingyu Kim, Kwanguk (Kenny) Kim
12:12 – 12:24	Understanding the Vulnerability Responses by Mobile App Developers	YASUMATSU / TATSUHIKO

Lunch (12:30 – 14:00, Lunch Box) Rooms 416 & 701 at Engineering Center Building

Session B-2: Chairs (KAMEYAMA / WATARU (Waseda) & Taesoo Kwon (HYU)

Room 103, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
14:00 – 14:12	Improvement of mobility communication in ICN	ISE / FUMITAKA
14:12 – 14:24	Performance Analysis and the Future of VANETs: A Review	Minjin Baek, Usman Ali Khan , Sang Sun Lee
14:24 – 14:36	Analysis of smart phone strategy	ICHISE / SHOICHIRO
14:36 – 14:48	A Framework of Adaptive Multimodal Input for Location Based Augmented Reality Application	Rimaniza Zainal Abidin
14:48 – 15:00	Momentum-Mapped Inverted Pendulum Models for Controlling Dynamic Human Motions	Seung-uk Ko, Taesoo Kwon, Jessica Hodgins
15:00 – 15:12	An Analysis on Correspondence of Music with Background Activity of Listener	MASATAKA / YOSHIDA
15:12 – 15:24	A Consideration on Classification of Video Viewer's Emotion Using Sparse Coding of Bio-signals and Facial Feature Points	TAGAMI / YUI

Coffee Break (15:30 – 16:00, Hallway 5F)

Session B-3: Chairs (Arshad/Haslina (UKM) & Euisun Jang (HYU)

Room 103, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
16:00 – 16:12	Study on Autonomous Drawing Scheme employing Image Processing with Drones	TAKASHIMA / FUMI MS
16:12– 16:24	Real-time Automatic Generation of Sports Ontology Instance and Artificial Intelligence Sportscasting	Yonggi Shin, Yongsuk Choi
16:24 – 16:36	Disaster image recognition and automatic labeling using AI	OKAMOTO / KOKI
16:36 – 16:48	Densely Connected Auto-Encode	DANG / HOANG ANH
16:48 – 17:00	Registration method for correction of intensity inhomogeneity in mri for Prostate Cancer	Yasmin Mumtaz Anma
17:00 – 17:12	Diffusion-Type Congestion Control in Named Data Network	KAIHORI / KOTA

Track B: Computer Science and Engineering (Room 502)

Session C-1: Chairs (Sahran/Shanorbanun (UKM) & Ag Asri Bin Ag Ibrahim (UMS)

Room 104, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
11:00 – 11:12	Performance Evaluation of 16-QAM 4 Single Sideband Modulation By OFDM	ALHASANI / MOHAMMED MUSTAFAA
11:12 – 11:24	An Experimental Demonstration of Hierarchical Distributed Topology Discovery Protocol using an extended BGP-LS	Yang Li, Haojun Zhao,Se Joon Chun, *Jin Seek Choi
11:24 – 11:36	mmWave In-Band Backhaul for 5G Small Cell Networks	OKOTH / PHONFRED JAOKO
11:36 – 11:48	Adaptive Beamforming for 5G Communications	DHAKAL / DHRUBA RAJ
11:48 – 12:00	Design and Analysis of Push mechanism based on CoAP Observe for Demand Response in Energy IoT Environment	Hyunjin Park, Heonil Park, Sung Hwan Lee , *Jin Seek Choi
12:00 – 12:12	Beam forming for 5G communication systems	SHAHPOOR / SERAJ AHMAD
12:12 – 12:24	Contention-Based SCMA for NB-IoT Uplink Communication	MULATU / BAYISA TAYE

Lunch (12:30 – 14:00, Lunch Box) Rooms 416 & 701 at Engineering Center Building

Session C-2: Chairs (SHIMAMOTO / SHIGERU (Waseda) & Yongjun Park (HYU)

Room 104, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
14:00 – 14:12	Utilization Efficient Game-Theoretical Handover Scheme for Macro-Femtocell Networks	HUA / QIAO ZHI
14:12 – 14:24	A Scheme for train integrity of grouped virtual train	Juhyun Maeng , Inwhee Joe
14:24 – 14:36	Mobility management in 5G based on IEEE 802.21	ANOSHA / MOHAMMADI .MS
14:36 – 14:48	Design and Implementation of Malicious Code Analysis System Using Docker.	Gyeong Min Kim and Yong su Park
14:48 – 15:00	Experimental study on Energy Saving Transmission Using D2D for Cellular Network	SAITO / MEGUMI MS
15:00 – 15:12	Power control algorithm in user centric network using Game theory	MEGHALEE / GOSWAMI MS
15:12 – 15:24	Graph kernel image classification	Shahnorbanun Sahran

Coffee Break (15:30 – 16:00, Hallway 5F)

Session C-3: Chairs (Nisar/Kashif Dr. (UMS) & Sang-Wook Kim (HYU)

Room 104, Chung Mong-Koo Automotive **Research Center**

Time	Presentation Title	Speaker(s)
16:00 – 16:12	Disaster information sharing system using Drone with CCN	TAZAWA / RYOICHIRO
16:12– 16:24	Function Chaining in NDN Pt. 1 (Overview)	SHIRAIWA / YOSHIAKI
16:24 – 16:36	Fast reference frame selection for Joint Exploration Model of future video coding with QTBT structure	Dong Tianyu, Sang-hyo Park, Euee S. Jang
16:36 – 16:48	Function Chaining in NDN Pt. 2 (Details)	YOSHII / HIROKI
16:48 – 17:00	An adaptive and efficient WBAN MAC Protocol in IoT Devices	Faisal Mohd Amin
17:00 – 17:12	Multilayered Metamaterial based Magnetic Induction communication	RAKOTOARITINA / TOJOARISOA
17:12 – 17:24	Data Packet Consolidation for IoT	Sho Harada, Zhiwei Yan, Yong-

	applications in Named Data Networking	Jin Park, Kashif Nisar, Ag Asri Ag Ibrahim
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