Program

The 2014 Korea Institute of ITS International Conference

*Date : October 31, 2014

*Venue: International Exchange & Cooperation Center, Korea Maritime And Ocean University, Busan, Korea

Time	Program	Details
09:00 ~	Registration	
11:10 ~ 12:00 (50min)	- Opening Ceremony - Opening Speech (President of KITS, Prof. Youngchan Kim) - Welcoming Speech (President of KMOU, Prof. Han-il Park)	Moderator (Prof. Sang Woon Lee, Namseoul University)
	- Keynote Speech: Automated Driving and the Communication Needs	Mr. T. Russell Shields, Chair,Ygomi
12:00 ~ 12:30 (30min)	Regular membership meeting	
12:30 ~ 13:30 (60min)	Lunch time	
13:30 ~ 15:40 (130min)	International Session 1 : Indoor Positioning and ITS (Chairman: Prof. Dong Soo Han, KAIST)	1-A: Dr. Francesco Potortì, ISTI
		1-B: Mr. Daniel Becker, Fraunhofer FOKUS
		1-C: Dr. Yoshiharu Doi, TOYOTA
		1-D: Dr. Sorawit Narupiti, Chulalongkorn University
		1-E: Prof. Ying-en Ge, Shanghai Maritime University
		1-F: Mr. Joonsoo Shin, Korea Expressway Corporation
15:40 ~ 16:00 (20min)	Coffee Break	
16:00 ~ 18:05 (125min)	International Session 2 : Simulation for ITS (Chairman: Prof. Seungjae Lee, University of Seoul)	2-A: Prof. Edward Chung, QUT
		2-B: Dr. Alex Erath, ETH-Singapore
		2-C: Mr.Ali Atizaz and Prof. Seungjae Lee, University of Seoul
		2-D: Dr. Ryota Horiguchi, i-Transport Lab
		2-E: Dr. Jan-Dirk Schmöcker, Kyoto University
		2-F: Mr. Nate Chanchareon, , PTV Group
18:05~	Farewell Dinner(International Speaker)	

Time	Program	Details
09:00 ~		Registration
9:30~11:00 (90min)	Session 1	Ⅰ-A: ATIS, ATMS, APTS
		Ⅰ-B: ITS Application Services Ⅰ
		Ⅰ-C: Communication and Application Ⅰ
11:10 ~ 12:00 (50min)	− Opening Ceremony − Opening Speech (President of KITS, Prof. Youngchan Kim) − Welcoming Speech (President of KMOU, Prof. Han-il Park)	Moderator (Prof. Sang Woon Lee, Namseoul University)
	− Keynote Speech: Automated Driving and the Communication Needs	Mr. T. Russell Shields, Chair, Ygomi
12:30 ~ 13:30 (60min)		Lunch time
13:30 ~ 15:00 (90min)	Session 2	Ⅱ-A: ITS Application Services Ⅱ
		Ⅱ-B: Others Ⅰ
		Ⅱ-C: Communication and Application Ⅱ
		Ⅱ-D: Communication Systems and Rfmaterial
15:00 ~ 15:30 (30min)		Coffee Break
15:30 ~ 17:00 (90min)	Session 3	Ⅲ-A: Others Ⅱ
		Ⅲ-B: Policies and Evaluation Ⅰ
		Ⅲ-C: Policies and Evaluation Ⅱ

Details

■ International Session 1: (13:30-15:40)

SESSION I - Rm. convention hall Chairman: Prof. Dong Soo Han, KAIST		
Title : Indoor Positioning and ITS		
No.	Title	Speaker
1	On-site Indoor Positioning and Navigation Competition	Dr. Francesco Potortì, ISTI
2	Vehicle and Pedestrian Collision Prevention System based on Smart Video Surveillance and C2I Communication	Mr. Daniel Becker, Fraunhofer FOKUS
3	V2X in Japan	Dr. Yoshiharu Doi, TOYOTA
4	ITS development in Thailand	Dr. Sorawit Narupiti, Chulalongkorn University
5	Using Intelligent Transportation Systems (ITS) for Environmental Improvement	Prof. Ying-en Ge, Shanghai Maritime University
6	Smart Highway Project & Test Road	Mr. Joonsoo Shin, Korea Expressway Corporation

■ International Session 2: (16:00-18:05)

SESSION II - Rm. convention hall Chairman: Prof. Seungjae Lee, University of Seoul		
Title : Simulation for ITS		
No.	Title	Speaker
1	Use of Bluetooth and Wifi for measuring vehicles and people movements	Prof. Edward Chung, QUT
2	Using Smart Card Data for Agent-based Transport Simulation: the case of Singapore	Dr. Alex Erath, ETH-Singapore
3	MATSim Application in Seoul	Mr. Ali Atizaz and Prof. Seungjae Lee, University of Seoul
4	Nowcast Traffic Simulation Using Floating Car Data for the Successive Monitoring of Traffic Performance and Environmental Impacts	Dr. Ryota Horiguchi, i-Transport Lab
5	Effects of Transit Real-Time Information Usage Strategies	Dr. Jan-Dirk Schmöcker, Kyoto University
6	Pedestrian Modeling Case Study - Sochi Winter Olympics 2014	Mr. Nate Chanchareon, PTV Group

■ Session 1: (09:30~11:00)

SESSION I -A -Rm. 705 Chairman:		
Title : ATIS, ATMS, APTS		
No.	Title	Speaker
1	Quantitative Analysis of Real-Time Traffic Information	Jeong YangRok, Bae SangHoon, Choi JiEun
2	Diagnostics Research in Tunnel Management System using IPA Analysis	Roh. Chang-Gyun, Park. Bum jin
3	Importance Analysis of Tunnel Management System to apply for Realtime Tracking Technology	Park. Bum jin, Roh. Chang-Gyun
4	An analysis of collaborative delivery in last-mile network -focused on courier industry	Hyeongjun Park, Dongjoo Park, In-Jae Jeong
5	A Study of Ramp meting Algorithm Based on Three Phase Theory	Lee Byung Jun, Kim Young chan, Lee Min Hyung
6	Queue Constrained Mainline Tollbooth Metering Algorithm	Hochul Park, Chungwon Lee
7	Correlation between Vehicle Stability and Emissions under Car-following	Lee.Jung-Beom,Lee. Chungwon

SESSION I - B - Rm. 706 Chairman:		
Title : ITS Application Services I		
No.	Title	Speaker
1	Development of Incident Detecting Model for Urban Major Arterial using Log Time Data of Probe Vehicle	Eom Jeong Eun, Bae Sang Hoon, Jung Hee Jin
2	Estimate of Traffic Condition of An Urban Major Arterial through Link Travel Speed Pattern Analysis Based on Global Positioning System (GPS) Data of Prove Vehicles	Jung Heejin, Bae Sanghoon, Choi Jieun
3	Development of Advanced Lane-Change Assist System (ALCAS) Based on Cooperative Intelligent Transportation System in Merging Section : Optimal Lane Change Start Point Positioning & Optimal Lane Change Path Tracking	Jinsoo Kim, Kyung-young Jhang
4	Analysis of Public Transit HUD Information Preference for Enhancing Transit Running Safety	Jisoo Kim, Bumjin Park, Ju Yeon Lee
5	A Study on the Method of Matching the Spatial Information of the Obstacle using the Radar and Night-vision sensors for Obstacle Recognition when Nighttime or Bad Weather.	Kwangmo. Sung, Sungjin. Kim, Junguck. Lee
6	Estimating transportation demand of unmanned aerial vehicle(UAV, Drone) logistics	Sangjin Byun, Seungjin Shin, Hyunseung Kim, Dongjoo Park, Hyeongjun Park
7	OBD data based road condition monitoring system - by friction coefficient and slip ratio analysis -	Shin Seong Wook, Kang Young Kyun, Park Jun Seo, Kim Ji Hoon

SESSION I - C - Rm. 704		
Chairman:		
Title : Communication and Application I		
No.	Title	Speaker
1	5.8 GHz Rectenna with Wireless Power Transmission Using Harmonics Suppressed Narrow Short Stub Band-Pass Filter	Jung-Tae Kim, Hyun-Wook Lee, Jae-Gook Lee, Min-Jae Lee, Jong-Chul Lee, Hae-Soo Jeong, Ki-Chul Yoon, Tae-Ui Hong
2	Radome Design for 77GHz Vehicle Radar	Kim Woo Young, Ham Hyung Suk, Kim Su Han, Park Yong Jai
3	Design of Beamforming System for Focused Ultrasound	Minkyoung Kim, Hi Yuen Song, Inn-Yeal Oh, Chul Soon. Park
4	Miniaturization of microstrip antenna suitable for LTCC	Jun-Won Kim, Yoon-Seon Choi, Jong-Myung Woo and Dong-Kook Lee

■ Session 2: (13:30-15:00)

SESSION II - A - Rm. 705		
Chairman:		
Title : ITS Application Services II		
No.	Title	Speaker
1	The Necessity of Vehicle Relocation Strategy for Car Sharing Services	Kwon. Ohyeon, Jo. Mijeong, Kho. Seung-Young, Lee. Chungwon
2	Development of a security locking system for the korean standard traffic signal cabinets	Kwang-Yong Ko, Min-Sung Kim, Young-gje Jeong
3	A Study on the new structure design for Traffic Local Controller	Han. Seunghee, Jeon. Hyesein, Park. Kwangho, Jang. Jisu
4	Improvement Effectiveness Assesment of Bus vacant seat information accuracy using transportation card system	Lim. Seung-kook, Kim. myoung-gyu
5	Internet of Cars through Commodity V2V and V2X Mobile Routes	Hoe Kyoung Kim, Kanchana Kanchanasut, Apinun Tunpan, Saroch Boonsiripant, Yun-Pyo Oh
6	Evaluation and Development of the Weigh-In-Motion for Overweight Enforcement in Expressway	Jaisung Choi, Sungkyu Kim, Hohyuk Na
7	A study on Quad-rotor Auto Control using Multi-Sensor	Ki-Hoon Byun, In-Hwan Ryu, Dong-Jin Park, Jang-Woo Kwon

SESSION Ⅱ – B – Rm. 706		
Chairman:		

Title : Others Ⅰ		
No.	Title	Speaker
1	Algorithm for passing through the intersection without stopping the TRAM	Park Su Jin, Lee In Kyu, Kim Young Chan
2	Studyonclassificationofthehighwaywithtrafficflowcharacteristics (AStudyoncasesofYeongdongHighway)	Lee. Dong-Youn, Yoon. Jae-Yong, Lee. Eui-Eun
3	Validation of 3 Phase theory -especially on Wide moving jam of each lane-	Heejeong Jung, Minhyoung Lee, Youngchan Kim
4	A VISSIM Simulation Study on Practicality of Speed Change Lanes at Driveways Along Suburban Arterials	Dae-San Lim, Chi-Hyun Shin
5	A Comparative Analysis of 'Hook Turns' & 'No-Left-Turn' to Solve the Left-Turning Traffic Problems at Urban Intersections	Hoyoung Lee, Dong-Kyu Kim, Seung Young Kho
6	Feasibility of adopting unprotected straight	Junhyung Lee, Yeseul Moon, Bongsoo Son
7	Improvement of Downstream traffic condition by changing signal phase sequence	Junhyung Lee, Yeseul Moon, Bongsoo Son

SESSION Ⅱ – C – Rm. 704		
Chairman:		

Title : Communication and Application Ⅱ		
No.	Title	Speaker
1	Evaluation of IVC system based on IEEE802.11p under various transmission conditions	Yoo S Song, Hyun S Oh
2	Broadband Antenna Design at 60 GHz for High Data Rate Short-Range Communication Applications	Yonghee Han, Yonghyun Yoon, Byungje Lee
3	W-Band High Gain Wide Band Vivaldi Antenna for Chip to Chip Communication	Tae Hwan Jang, Hong Yi Kim, Inn Yeal Oh, Chul Soon Park
4	80GHzOOKTransmitterForTheDataCommunicationBetweenMobileDisplayPanels	JoonggeunLee, Haejin Lee, Chae Jun Lee, Taehwan Jang, Chulsoon Park
5	Performance evaluation for Intra-vehicle wireless sensor network	Yongnu Jin, Kyung Sup Kwak

SESSION Ⅱ - D - Rm. 101		
Chairman:		
Title : Communication Systems and Rfmaterial		
No.	Title	Speaker
1	Performance Comparison of th Training Signal in MIMO-OFDM System	Lee Hyeong-Woo, Hwang Chan-Ho, Kim K-Man, Cho Hyung-Rae
2	Performance Enhancement of the Equalizer under Wireless Communication Environment	Ji-Hong Son, Chan-Ho Hwang, Ki-Man Kim
3	The low-power Viterbi decoder for RFID	Baek Chang uk, Kwon Hae chan, Kim Tae hun, Ahn Tae seok, Jung Ji won, Cho Hyung-rae
4	Adaptive Demodulation System using Decision Directed Method I wireless communication	Hae Chan-Kwon, Chang Uk-Baek, Tae Hun-Kim, Gun Woong-Park, Ji Won-Jung
5	A Study on Q-Factor of Thin-film Open Stub Employing ML/CPW Composite Structure for Application to Wireless Communication System Matching Components on Si RFIC	Jang-Hyeon Jeong, Ki-Jun Son, Jeong-Hoon Kim and Young Yun
6	A Study on Loss Characteristic of Voltage-controlled Artificial Transmission Line Employing Periodically Loaded Diodes for Application to Highly Miniaturized Wireless Communication System on MMIC	Jeong-Hoon Kim, Jang-Hyeon Jeong, Ki-Jun Son, Young Yun

■ Session 3: (15:30-17:00)

SESSION Ⅲ - A - Rm. 101		
Chairman:		
Title : Others Ⅱ		
No.	Title	Speaker
1	Optimal Air-Ambulance Locationfor Medically Underserved Areas	Sehyun Park, Dong Kyu Kim, Seung Young Kho
2	InvestigationalAnalysisofRoadDisasterInformationonSocialNetworkService	Lee Hwanpil, Kim Soohee, Lee Seunghwan, Lee Sanghyun
3	Study on New material Pavement for Implementing the next Generation Functional Road	Sungpil Shin, Inchul Yang
4	A Study on Public Transport Characteristics Considering Subway Influence Areas	Seungu Choi, Sangwoo Jeon, Jeongwoo Lee, Chulmin Jun
5	The impact of regional transportation culture in pedestrian accident severity	Jimin Chae, Junhyung Lee, Bongsoo Son
6	Analysis of Accident Characteristics and Improvement Strategies of Flash Signal-operated Intersections in Seoul	Jin-Hak Lee,Byung-Jung Park, Seung-Jun Kim, Ok-San Kim
7	Preliminary Study on the surface temperature prediction model developed by the Meteorological Information Literacy	Jinwoo Hyun, Youngtae Son

SESSION Ⅲ - B - Rm. 102
Chairman:

Title : Policies and Evaluation I

No.	Title	Speaker
1	Study on the High-Pass Lanes Travel Speed by Tollgate Type And Lane Width	Yoon-Hyuk, Choi, Yoon-Seok, Lee , Han-Geom, Ko
2	Study on the Comparison of Point Detector Reliability In Expressway	Yoon-Hyuk, Choi, Yoon-Seok, Lee
3	Estimating catchment area of intermodal rail freight terminals: focusing on Korean container transportation	Hyunseung Kim, Sangjin Byun, Dongjoo Park, Ikhee Kim, Jinhyeong Joo
4	Potential for Transferring Short Car Trips to Active Transportation	Jeongwoo Lee, Chulmin Jun
5	Analysis of Trip behavior during Korean Thanksgiving Day	Jeong. Soyoung, Kim. Soohee, Baek. Seungkirl
6	Analysis of Trip Characteristics on Expressway Lane Designation	Jeong. Soyoung, Baek. Seungkirl

SESSION Ⅲ - C - Rm. 704
Chairman:

Title : Policies and Evaluation II

No.	Title	Speaker
1	Analysis of Intercity Travel Time during National Holidays	Jeong. Soyoung, kim. Soohee
2	A study on Estimation of Market`s Demanding using System Dynamics : A Case for DongBu-Market	Oh Chanhee, Lee SeungJae, Na SungYong
3	Analysis of transit transfer in Seoul metropolitan area based on smart card data	Jae-Hyun Kil, Yong-Gwan Lee, Seung-Young Kho
4	Improving predictive study that rail-transport demand analysis using CUBE	Kim, Yong Jin, Lee, Seung Jae, Kim, Joo Young
5	Development of VKT reflected Mobility for estimating regional GHG Emission	Ahn. Seok Beom, Lee, Seung Jae, Kim, Joo Young
6	Accuracy Improvement Study of Transit Assignment Results	Kim, Yong Jin, Lee, Seung Jae, Kim, Joo Young