

# *The 12<sup>th</sup> KOREA-CHINA Quality Symposium*

**AUGUST 12-14, 2013**

**Seoul National University, SEOUL**

**Korean Society for Quality Management**

**Sponsors: National Research Foundation of Korea**

**National Natural Science Foundation of China**

# The 12<sup>th</sup> KOREA-CHINA Quality Symposium Program

Monday, 12th of August, 2013				Venue
12:00 – 17:00	Arrival / Registration			Hoam Faculty House (Main Bldg. 2F Marronnier)
18:00 – 20:00	Reception			
Tuesday, 13th of August, 2013				
9:30 – 9:40	Opening Ceremony			Business School SK Bldg.(58 dong) 2F 231
9:40– 10:40	<b>Keynote Speech</b> He Zhen: Enhancing the future impact of six sigma management KSA:			
10:40 – 11:00	Tea break			
11:00 – 12:00	<b>Keynote Speech</b> Samsung Electronics(Vice President Kyungbin Chun) : Quality Management of Samsung Electronics			
12:00 – 13:20	Lunch			Sodammaloo DongWeon Cafeteria Bldg.F113 3F
13:20 – 14:40	A1	A2	A3	Business School SK Bldg.(58 dong) 3,4F 331/332/432
	SQC/SPC (I)	DOE	QM/Service Quality (I)	
	HE Shuguang, JANG Dae-Heung, LIU Yumin, ULKHAQ Muhammand Mujiya	CUI Qingan, LIM Yong Bin, ZHANG Cui-Hua, Ree Sangbok	CHANG Guangshu, BAE Sung Min, ZHANG Min, KIM Youn Sung	
14:40-15:00	Tea break			
15:00 – 16:20	B1	B2	B3	
	SQC/SPC (II)	Quality Measurement	QM/Service Quality (II)	
	SONG Huaming, JIHN Chang Ho, WANG Hai-yu, YANG Jianfeng	SHI Liangxing, SONG Haegun, MEI Yiming, KIM Hyun-Jin	WEN De-cheng, KIM Hyung-wook, WANG, Keqin, BYUN Jai-hyun,	
16:20 - 16:40	Tea break			
16:40 – 18:00	C1	C2	C3	
	SQC/SPC (III)	Product Design/ Technology	Reliability/PL	
	SANG Yanfen, JEONG Taek-jin, SUN Jing, XUI Li	LUO Xinggang, SONG Haegun, TONG Shurong, SUH Young-Ho	WU Yinghui, KO BokSoo, XIONG Wei, YOON Byungun	
19:00 – 20:30	Banquet			Engineer House Auditorium(101)
Wednesday, 14th of August, 2013				
9:00 – 17:00	Technical Tour			

## Session A - 13:30 – 14:50

<b>A1. SQC/SPC (I)</b>	<b>Co-Chairs:</b> LIU Yumin, JANG Dae-Heung
HE Shuguang, JIANG Wei, DENG Houtao,	Real time contrast process monitoring with support vector machine classifiers
JANG Dae-Heung,	DD-plot for detecting the out-of-control state in multivariate process
LIU Yumin, ZHOU Haofei, ZHANG Shuai,	Quality pattern recognition based on MSVM model for dynamic process
JIHN Chang-Ho, ULKHAQ Muhammad Mujiya	Efficient average run length computation for ARMA charts
<b>A2. Design of Experiments</b>	<b>Co-Chairs:</b> ZHANG Cui-Hua, LIM Yong Bin
CUI Qingan	Design of experiments and global modeling approach considering sub-domain significance of multi-extremums quality characteristics process
LIM Yong Bin	Finding the cost-effective mixtures robust to noise variables in the mixture-process experiments
Zhang Cui-Hua, Alice E. Smith, WU Linying, SUN Lifu, LI Jian	A robust optimization approach to Semi-obnoxious facility location
Ree Sangbok	Experiment on difference on Taguchi method and factorial design
<b>A3. QM/Service Quality (I)</b>	<b>Co-Chairs:</b> ZHANG Min, KIM Youn Sung
CHANG Guangshu, WANG Min	Supply Chain Management based on ISO26000
JUNG Seok-Jin, SHIN Moon-Soo, KWEON O-Seong, LEE Soon-Geun, BAE Sung Min	Analysis of Service Quality of social shopping portal: based on KS-QEI survey
ZHANG Min, JIN Biying, WANG G. Alan, GOH Thong Ngee, He Zhen	A Study of key success factors of service enterprises in China
KIM Youn Sung	Leadership-driven quality innovation (LDQI) in Hyundai motor group case

## Session B - 15:00 – 16:20

<b>B1. SQC/SPC (II)</b>	<b><i>Co-Chairs:</i></b> SONG Huaming, JIHN Chang Ho
SONG Huaming, MA Yizhong	Classifying control chart patterns by ensemble learning of bagging with decision trees
JIHN Chang Ho, HERNANDEZ Aida G. M.	Likelihood-based Bayesian method for monitoring multivariate stage process
WANG Hai-yu	Shift detection method of multiple time delay feedback adjusted process
YANG Jianfeng, WANG Ning	Identifying method for key quality characteristics in multistage manufacturing process with hybrid structure
<b>B2. Quality Measurement</b>	<b><i>Co-Chairs:</i></b> SHI Liangxing, SONG Haegeun
SHI Liangxing, HE Qiumeng, HE Zhen	A projection region approach for multivariate measurement system capability analysis
SONG Haegeun, PARK Young Taek	Managing quality attributes using 5-point Likert scale Kano model
MEI Yiming, YU Zhonghua, YANG Zhensheng, SUN Changjing,	Study of the impact of thermal deformation on the grinding size precision
KIM Hyun-Jin, KIM Kwang-Jae	Development of scales for measuring quality of mobile content services: focused on application market services
<b>B3. QM/Service Quality (II)</b>	<b><i>Co-Chairs:</i></b> WEN De-cheng, KIM Hyung-Wook
WEN De-cheng, CHENG Li-Ying	An analysis of discerning customer behavior: an exploratory study
KIM Hyung-Wook	Advancing the competitiveness of service QM in Korea
WANG Keqin, DU Jun, TONG Shurong	Manufacturing knowledge system for supporting design
BYUN Jai-Hyun, OUYANG Linhan, MS Yizhong	A Review of Robust Design Considering Model Uncertainty

## Session C - 16:40 – 18:00

<b>C1. SQC/SPC (III)</b>	<b>Co-Chairs:</b> SUN Jing, BYUN Jai-Hyun
SHANG Yanfen, TSUNG Fugee, He Zhen, ZOU Changliang	LASSO-based diagnosis scheme for multistage processes with binary data
JIHN Chang-Ho, JEONG Taek-Jin,	Simultaneous monitoring scheme for the various magnitudes of mean shifts
SUN Jing, ZUO Xin	MEWMA control scheme based on BP algorithm for multivariate autocorrelated processes
XUI Li	Economic design of EWMA control chart under geometric distribution using variable sampling policy
<b>C2. Product Design/ Technology</b>	<b>Co-Chairs:</b> LUO Xinggang, SUH Young-Ho
LUO Xinggang, ZHANG Z.C., KWONG C.K., TANG Shuai	An extension to the share-of-surplus product line optimization model
SONG Haegeun PARK Young Taek	Prioritizing quality attributes for improvement using the theory of two-dimensional quality
TONG Shurong, LI Jing, WU Zongxiao, WANG Keqin,	Extension module based mechanical product design process planning
KIM Samuel, LEE Sang-Chul, SUH Young-Ho	Satisfaction and task technology fit on performance
<b>C3. Reliability/Product Liability</b>	<b>Co-Chairs:</b> XIONG Wei, KO BokSoo
WU Yinghui, TANG Jiafu	A stochastic optimization model for transit network timetabling to mitigate the randomness of bus travel time: from reliability perspective
SEO Jun-Hyeok, BAE Sung-Min, KO BokSoo	Status of Product Liability (PL) and its response system of small and medium sized manufacturing company of Korea
XIONG Wei, XIE Jingrong	A Quality control model for high speed rail based on QFD
YOON Byungun	Risk Mmnagement of R&D failure based on failure mode and effect analysis (FMEA) and decision making trial and evaluation laboratory (DEMATEL)