

## WELCOME Message from the General Chair of CUTE 2011

It is my honor and pleasure to host the 6th International Conference on Ubiquitous Information Technologies and Applications(CUTE 2011) in Seoul, Korea. I would like to express my sincere appreciation to the committee members who prepare this wonderful conference and all the authors who contribute their excellent research works to make this conference successful.

We, KIPS and the committee members, have invited world-renowned speakers and selected outstanding 64 papers through peer-review process. For two days from today, you will be able to enjoy their presentations and discussions with them. We are, in fact, highly impressed by their creative ideas and research works while evaluating them.

This conference consists of wide spectrum of research results related to ubiquitous computing technology from theory to practice including Infrastructure, Communication & Broadcasting and Software Technology. The pertinent issues and technological advances in the broad areas of computer engineering will be also discussed throughout the conference. I believe that CUTE2011 will provide an opportunity for all participants to update and exchange knowledge of future ICT technology through well-formed presentations and discussions.

Once again, I would like to express my sincere welcome and thanks to you all for joining the 6th International Conference on Ubiquitous Information Technologies and Applications(CUTE 2011). We, KIPS and committee members have done and will do our best to make this conference a truly memorable experience for all participants. We also wish you experience and enjoy unique and wonderful cultural attraction during your stay in Seoul.

Thank you.

*General Chair of CUTE 2011*

Tai Myoung Chung  
President of Korea Information Processing Society

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# 6th CUTE

DEC. 15 - 17, 2011 COEX, Seoul, Korea

## Program Committee

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## Local Organizing Chair

Neungsoo Park, Konkuk University, Korea

## Financial Chair

Im-Yeong Lee Soonchunhyang University, Korea

## Keynote Speech 1

### *Towards the ubiquitous cloud: multi-cloud systems*



**Prof. Jose Fortes,**  
Univ. of Florida, USA

**José A.B. Fortes** received the Ph.D. degree in Electrical Engineering from the University of Southern California, Los Angeles in 1984. From 1984 until 2001 he was on the faculty of the School of Electrical Engineering of Purdue University at West Lafayette, Indiana. In 2001 he joined both the Department of Electrical and Computer Engineering and the Department of Computer and Information Science and Engineering of the University of Florida as Professor and BellSouth Eminent Scholar. His research interests are in the areas of distributed computing, autonomic computing, computer architecture, parallel processing and fault-tolerant computing. He has authored or coauthored over 180 technical papers and has lead the development and deployment of Grid-computing software used in several cyber infrastructures for e-Science and digital government. His research has been funded by the Office of Naval Research, AT&T Foundation, IBM, General Electric, Intel, Northrop-Grumman, Army Research Office, NASA, Semiconductor Research Corporation and the National Science Foundation. José Fortes is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) professional society. He was a Distinguished Visitor of the IEEE Computer Society from 1991 till 1995. José Fortes is on the Editorial Boards of Cluster Computing: The Journal of Networks, Software Tools and Applications, the International Journal on Parallel Programming, the ACM Journal on Emerging Technologies in Computing Systems, and the Journal of VLSI Signal Processing. He is also a past member of the Editorial Boards of IEEE Transactions on Parallel and Distributed Systems and the Journal of Parallel and Distributed Computing.

## Keynote Speech 2

### *MAHA - A New Generation Super Computing System for Genome Data Analysis*



Dr. Han Namgoong  
ETRI, Korea

**Han Namgoong** is a principal member of research staffs at ETRI. He has experienced in Linux, large scale distributed system, cloud computing, and supercomputing system more than 20 years. Han received the PhD degree in computer science from KAIST. His research interests focus on micro-sensor network topology for energy-efficiency and self-stabilization algorithm.

## Program at Glance

**December 15, 2011 (Thursday)**

COEX Conference Room(South) 317, 318

Open from 9:00	<b>Registration</b>			
10:00~10:20	<b>Opening Remark</b>			
10:20~11:10	<b>Keynote Speech 1</b> <i>Towards the ubiquitous cloud: multi-cloud systems</i> (Room 317) Prof. Jose Fortes (Univ. of Florida, USA)			
11:10~12:00	<b>Keynote Speech 2</b> <i>MAHA - A New Generation Super Computing System for Genome Data Analysis</i> (Room 317) Han Namgung (ETRI, Korea)			
12:00~13:00	<b>Lunch (COEX 1F Wizwitt)</b>			
13:00~15:00	<b>Session 1</b> <i>Korea-Japan e-Science and Cloud Symposium</i> Chair Hidemoto Nakada (Room 317)	<b>Session 2</b> <i>Ubiquitous Infrastructure Technology</i> Chair Sungwon Lee (Room 318A)	<b>Session 3</b> <i>Ubiquitous Communication &amp; Broadcasting</i> Chair Jaechul Ryoo (Room 318B)	<b>Session 4</b> <i>Ubiquitous Software Technology</i> Chair Young Guk Ha (Room 318C)
15:00~15:30	<b>Coffee Break</b>			
15:30~17:30	<b>Session 5</b> <i>Korea-Japan e-Science and Cloud Symposium</i> Chair Jaegyoon Hahn (Room 317)	<b>Session 6</b> <i>Ubiquitous Infrastructure Technology</i> Chair Young Ik Eom (Room 318A)	<b>Session 7</b> <i>Ubiquitous Communication &amp; Broadcasting</i> Chair Hoon Jae Lee (Room 318B)	<b>Session 8</b> <i>Ubiquitous Software Technology</i> Chair Sang-Chul Kim (Room 318C)
17:30~19:30	<b>Welcome Reception &amp; Banquet (COEX 2F VIZAVI)</b>			

### Note

1. A paper presentation should be made by one of authors of the paper, during a 30 minute time slot (20 minutes for the presentation itself and 10 minutes for Q/A).
2. All speakers of each session should meet the session chair at its room 10 minutes before the session.
3. We will prepare Windows7 laptops running the Adobe Reader and Microsoft Office 2010 for paper presentations. Please prepare your presentation files for being read by those applications.
4. If you have any questions about the program, please feel free to contact the CUTE 2011 Program Chair, Kichun Kim ([kckim@konkuk.ac.kr](mailto:kckim@konkuk.ac.kr)).

# 6th CUTE

DEC. 15 - 17, 2011 COEX, Seoul, Korea

December 16, 2011 (Friday)

COEX Conference Room(South) 317, 318

Open from 9:30	Registration		
10:00~12:00	<b>Session 9</b> <i>Ubiquitous Infrastructure Technology</i> Chair Chia Lin Chan (Room 318A)	<b>Session 10</b> <i>Ubiquitous Communication &amp; Broadcasting</i> Chair Hyunseung Choo (Room 318B)	<b>Session 11</b> <i>Ubiquitous Software Technology</i> Chair Bong Gyu Lee (Room 318C)
12:00~13:00	<b>Lunch (COEX 1F Wizwit)</b>		
13:00~15:00	<b>Session 12</b> <i>Ubiquitous Infrastructure Technology</i> Chair Keun Ho Ryu (Room 318A)	<b>Session 13</b> <i>Ubiquitous Communication &amp; Broadcasting</i> Chair Neung Soo Park (Room 318B)	<b>Session 14</b> <i>Ubiquitous Software Technology</i> Chair Eui Nam Huh (Room 318C)
15:00~15:30	<b>Coffee Break</b>		
15:30~17:30	<b>Session 15</b> <i>Ubiquitous Infrastructure Technology</i> Chair Jung Min Park (Room 318A)		<b>Session 16</b> <i>Ubiquitous Software Technology</i> Chair Shinji Shimojo (Room 318C)

December 17, 2011 (Saturday)

9:00~12:00	<b>Local Exhibition</b>
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## Detailed Conference Schedule

**December 15, 2011 (Thursday)**

**Open from 9:00 Registration**

**10:00 ~ 10:20 Opening Remark**

**10:20 ~ 12:00 Keynote Speech Speaker [COEX Conference Room(South) 317]**

**12:00 ~ 13:00 Lunch (COEX 1F Wizwitt)**

**13:00 ~ 15:00 Session 1**

### Korea-Japan e-Science and Cloud Symposium

COEX Conference Room(South) 317 (Chair : *Dr. Hidemoto Nakada*)

**1. Design and Implementation of Highly Scalable Speech Recognition System CUTE1108**

Shunsuke NISHII, Toyotaro SUZUMURA

**2. Eucalyptus-based Science Cloud Platform for Weather Research Forecasting Models CUTE1145**

Oh-kyoung Kwon, Sangwan Kim, Jaegyo Hahn

**3. Toward a practical "HPC Cloud": Performance tuning of a virtualized InfiniBand cluster CUTE1131**

Ryousei Takano, Tsutomu Ikegami, Takahiro Hirofuchi, Yoshio Tanaka

**4. An Adaptive Resource Provisioning Scheme for Distributed Bio-workflow Broker with Stream-Based NGS in Cloud CUTE1128**

Byungsang Kim, Chan-Hyun Youn, Eun Bo Shim, Hoyoung Kang, DongKi Kang and Jinmee Kim

**5. An Implementation of Sawzall on Hadoop CUTE1130**

Hidemoto Nakada, Tatsuhiko Inoue and Tomohiro Kudoh

**6. A heart mechanics model coupled with cardiovascular system dynamics CUTE1195**

Ki Moo Lim, Seung-Bae Hong, Natalia A Trayanova, Eun Bo Shim

## 13:00 ~ 15:00 Session 2

### Ubiquitous Infrastructure Technology

COEX Conference Room(South) 318A (Chair : Dr. Sungwon Lee)

1. Architecture of Cross-Control Frameworks (CFs) Federation Broker System for Future Internet CUTE1111  
Sangjin Jeong, Ki-Hyuk Nam, Myung-Ki Shin, Hyoung-Jun Kim
2. Service on Cloud Environments using XML-RPC CUTE1120  
Seungmi Choi, Jaewoo Choi, Hyeonsang Eom, Heon Y. Yeom
3. FiRST Cloud : Interworking between Cloud Computing and Future Internet over FiRST Project CUTE1176  
Hyunjun Kim, Sungwon Lee
4. Experimental Seamless Connectivity with Sustainable Wireless Link Quality using MIH CUTE1178  
InJae Song and Sungwon Lee

## 13:00 ~ 15:00 Session 3

### Ubiquitous Communication & Broadcasting

COEX Conference Room(South) 318B (Chair : Dr. Jaechul Ryou)

1. A Robust Passivation Layer for Crypto-processor Against Physical Attacks CUTE1106  
Ndibanje Bruce, Amlan Jyoti Choudhury, Hoon Jae Lee
2. Function-Based Energy Savings For Interactive 3D Games over mobile devices CUTE1142  
Wen Huang, Tiefei Zhang and Tianzhou Chen, Tongsen Hu
3. Research on improving the sign-up process for public I-PIN and activating their usage CUTE1107  
Cha Geon-Sang, Shin Young-tae
4. Optically Switching Dynamic Inter-pod Traffic for intra-Datacenter Networking CUTE1100  
Limei Peng, Chan-Hyun Youn

Invited paper

## 13:00 ~ 15:00 Session 4

### Ubiquitous Software Technology

COEX Conference Room(South) 318C (Chair : Dr. Young Guk Ha)

1. The performance estimation for MR-FSK in outdoor Channel environments CUTE1112  
Cheolho Shin , Sangsung Choi
2. Context Awareness Simulation based on Petri-Net Context Model CUTE1172  
Chong-Woo Woo, Joohee Suh, Tae-Hyung Kim, Jin-Woo Choi, Sang-Chul Kim

**3. Multi-Purposes u-Healthcare Service System for Smart Mobile Devices** *CUTE1182*

Uk Jae Ryu, Dae Jung Kim, Eun Tae Kim, Kyung Ho An, Yun Young Choi, Sung Hun Woo, Yun Seok Chang

**4. LTmeter: An App Launching Time Analyzer for Personal Smart Devices** *CUTE1188*

Jehun Lim, Hakbong Kim, Wook Song and Jihong Kim

**15:00 ~ 15:30 Coffee Break**

**15:30 ~ 17:30 Session 5**

**Korea-Japan e-Science and Cloud Symposium**

**COEX Conference Room(South) 317 (Chair : Dr. Jaegyo Hahn)**

**1. Towards Multi-site Virtual Cluster Deployment** *CUTE1126*

Susumu Date, Taiki Tada, Kohei Ichikawa, Shinji Shimojo

**2. Feasibility Study for SuperWASP Data Analysis on Hadoop** *CUTE1119*

Jae-Hyuck Kwak, Yong Hwan Jung, Jun Weon Yoon, Jaegyo Hahn, Dong In Park

**3. A Statistical Approach for Selecting Throughput Prediction Parameters on the Internet** *CUTE1121*

Chunghan Lee, Hirotake Abe, Toshio Hirotsu, Kyoji Umemura

**4. Development and Performance Evaluation of CUDAMPI Application** *CUTE1174*

Hunjoo Myung, Hyung Taek Ahn, Chan Yeol Park

**5. Hadoop MapReduce on the Gfarm file system** *CUTE1196*

Shunsuke Mikami, Kazuki Ohta, Osamu Tatebe

**6. Adaptive Resource Management System for QoS guaranteed Workflow Applications** *CUTE1179*

Youngjoo Han, Chan-Hyun Youn, Dong-ki Kang

**7. Hadoop on the Tsubame2.0 Supercomputer** *CUTE1122*

Hitoshi Sato, Satoshi Matsuoka

**8. Concept and Design of an eScience Research Environment Based on a Private Cloud** *CUTE1187*

Huioon Kim, Kyungwon Chun, Hyounggyu Kim, Kil Su Jung, and Youngjoo Chung

15:30 ~ 17:30 Session 6

## Ubiquitous Infrastructure Technology

COEX Conference Room(South) 318A (Chair : Dr. Young Ik Eom)

1. A Novel Energy Efficient Burst Assemble algorithm of OBS Networks with Low Power Idle CUTEI160

Dong-ki Kang, Chan-Hyun Youn, Young-Chon Kim

2. Resource Redundancy Elimination by Bridging the Semantic Gap in Virtualized Systems CUTEI161

Inhyeok Kim, Changwoo Min, Young Ik Eom

3. Measurement and Analysis of Wireless Network Quality of Experiences CUTEI164

Yura Lee, Ikjun Yeom

4. A study on routing protocols of a hierarchical sensor network for the manhole condition surveillance

CUTEI190

H.R. Lee, K.Y. Chung, K.S. Jhang

15:30 ~ 17:30 Session 7

## Ubiquitous Communication & Broadcasting

COEX Conference Room(South) 318B (Chair : Dr. Hoon Jae Lee)

1. Indoor User Localization System using Environment Sensor CUTEI117

Ae-cheoun Eun and Young-guk Ha

2. Analysis of Security Priorities of u-Learning Environments using ANP CUTEI118

Keon Chul Park, Seong Jin Kim, Bong Gyoo Lee

3. A DRM based Document Protection System for Secure and Efficient Document Delivery CUTEI192

Nam-Uk Kim, Sung-Min Jung, Tai-Myoung Chung

4. Implementation of Polarized Antenna Array for Six Degrees of Freedom CUTEI183

Sangmin Oh, Byung Chul Yeo, Sung Yong Cha, Seung Bae Kim, Ju Yong Lee

15:30 ~ 17:30 Session 8

## Ubiquitous Software Technology

COEX Conference Room(South) 318C (Chair : Dr. Sang-Chul Kim)

1. Specifying Energy Characteristics of Reusable Software Component CUTEI139

Doohwan Kim, Jang-Eui Hong

2. A Study on Mobile Malware Detection Scheme with Restricted Environment CUTEI1168

Ho-Yeon Kim, Sung Min Jung, Young-Hyun Choi, Tai-Myoung Chung

**3. Adaptive System Framework for Multi-Face Client in Cloud Environment** *CUTE1143*

Tae Hee Lee, Jun Hyung Lee, Eui Nam Huh

**4. Android Linux Vulnerability Analysis** *CUTE1153*

SeungWook Min, JaeCheol Ryou

**17:30 ~ 19:30 Welcome Reception & Banquet (COEX 2F VIZAVI)**

**December 16, 2011 (Friday)**

**Open from 9:30 Registration**

**10:00 ~ 12:00 Session 9**

## Ubiquitous Infrastructure Technology

COEX Conference Room(South) 318A (Chair : *Dr. Chia Lin Chan*)

**1. The Cumulative Hash Technique for Detecting the Modification of Messages in the AMI Network**

*CUTE1163*

Sun-Hee Han, Min-Woo Park, Sung-Min Jung, Tai-Myoung Chung

**2. Towards High Throughput Storage for Clouds** *CUTE1167*

Chanko Choi, Shin-gyu Kim, Hyeongsang Eom, Heon Y. Yeom

**3. Implementation of UPnP for Home Networking** *CUTE1171*

June-Seung Pak, Young-June Choi and Wooguil Pak

**4. Implementation of Personalized u-Commerce Recommendation System using Preference of Item Category based on RFM** *CUTE1170*

Young Sung Cho, Seon-phil Jeong, Keun Ho Ryu

**10:00 ~ 12:00 Session 10**

## Ubiquitous Communication & Broadcasting

COEX Conference Room(South) 318B (Chair : *Dr. Hyunseung Choo*)

**1. Slot Scheduling Schemes Using Balanced Incomplete Block Designs for Sensor Networks** *CUTE1114*

Pradeep Reddy Korandla, Jong-Hoon Youn

**2. Search Range Compression by Using Distance Calculation Frequency** *CUTEI135*

Samuel Sangkon Lee

**3. Beyond 4G Network Architecture and Performance Evaluation based on OPNET Simulation** *CUTEI180*

Yongrok Kim, Donghan Chee, Yong-Up Jang, Ju Yong Lee

**4. PTT Service Interworking Between 3G and P2P Overlay Networks** *CUTEI194*

Tuan-Hao Tieu, Seil Jeon, Younghan Kim

**10:00 ~ 12:00 Session 11**

**Ubiquitous Software Technology**

COEX Conference Room(South) 318C (Chair : *Dr. Bong Gyu Lee*)

**1. A Study of Network Performance Isolation in the Xen Virtualization Environment** *CUTEI129*

Untae Kim, Chanho Choi, Hyeonsang Eom, Heon Y. Yeom

**2. Synchronizing Large-Scale Locally-Connected Automata on Two-Dimensional Square Arrays** *CUTEI193*

HIROSHI UMEO

**3. A Parallel and Distributed Programming Model for Mining Correlated, Associated,**

**Associated-Correlated and Independent Patterns from Large Transactional Databases Using**

**MapReduce on Hadoop** *CUTEI136*

Md. Rezaul Karim, Md. Mamunur Rashid, Md. Azam Hossain and Byeong-Soo Jeong

**12:00 ~ 13:00 Lunch (COEX 1F Wizwit)**

**13:00 ~ 15:00 Session 12**

**Ubiquitous Infrastructure Technology**

COEX Conference Room(South) 318A (Chair : *Dr. Keun Ho Ryu*)

**1. Dynamic Analysis of Internet Mobile Phone in Ubiquitous Wireless Environment** *CUTEI151*

Chih Chin Yang, Yi Ju Yang, Chia Lin Chan

**2. Route Optimization Scheme of Inter-domain Handover for PMIPv6** *CUTEI149*

Yoonchang Jang, Seungtak Oh, Moonseong Kim, and Hyunseung Choo

**3. The Method to Minimize Out-of-sequence Packets in PMIPv6 RO** *CUTEI150*

NamYeong Kwon, Moonseong Kim, Seung-Tak Oh, Hyunseung Choo

**4. MIH and Link Layer Congestion Information based Heterogeneous Network Handover** *CUTEI156*

Lin Kim, Sungwon Lee

**13:00 ~ 15:00 Session 13**

**Ubiquitous Communication & Broadcasting**

COEX Conference Room(South) 318B (Chair : *Dr. Neung Soo Park*)

- 1.** Enhanced Out-of-Band Sensing Algorithm for Cognitive Radio Networks *CUTE1175*

Yalew Zelalem Jembre and Young-June Choi

- 2.** Advanced Queue Management for QoS of H.264/AVC in WiMAX Systems *CUTE1181*

Heeseung Lee, Sungjun Kim, Kyungtae Kim, Wooguil Pak, Young-June Choi

- 3.** A Virtual Cluster Manager using a Hierarchical Management Model for Cloud Infrastructure *CUTE1148*

Pongsakorn U-chupala., Kohei Ichikawa, Hirotake Abe, Susumu Date and Shinji Shimojo

**13:00 ~ 15:00 Session 14**

**Ubiquitous Software Technology**

COEX Conference Room(South) 318C (Chair : *Dr. Eui Nam Huh*)

- 1.** Computer Vision Acceleration Using Coarse Grained Reconfigurable Architecture *CUTE1162*

Ingoo Heo, Jinyong Lee, Yeongpil Cho, Yunheung Paek

- 2.** Secure Interface Layer for Web Browsers *CUTE1165*

Jae Won MIN, Sung Min JUNG, Tai Myoung CHUNG

- 3.** Modelling and Analysis of a Scheduling Scheme using Coloured Petri-Nets in Networked Robot

*CUTE1166*

Jeong-Hwa Lee, Jung-Min Park

**15:00 ~ 15:30 Coffee Break**

**15:30 ~ 17:30 Session 15**

**Ubiquitous Infrastructure Technology**

COEX Conference Room(South) 318A (Chair : *Dr. Jung Min Park*)

- 1.** Requirements Analysis of Mass Scale M2M Networks Based on Smart Logistics Use Case *CUTE1152*

Jun-Zhao Sun

- 2.** Link-Adaptive SVC Video Transmissions over a Wireless Link *CUTE1158*

Shehzad Amir, Young-June Choi, and Kyungtae Kim

- 3.** Resource Assignment in Distributed Networks Under Cyclic Constraint *CUTE1144*

Satoshi FUJITA

15:30 ~ 17:30 Session 16

## Ubiquitous Communication & Broadcasting

COEX Conference Room(South) 318C (Chair : Dr. Shinji Shimojo )

1. Data Selection for Data Mining in an Ubiquitous Environment: A Case Study in Epidemiology CUTE1157

Miguel Hidalgo-Reyes, Santiago Eibe-García, Joaquín Pérez-Ortega

2. Event-Centric Test Case Scripting Method for SOA Execution Environment CUTE1132

Youngkon Lee

3. Semi-automatic Test Assertion Transformation Scheme for SOA CUTE1134

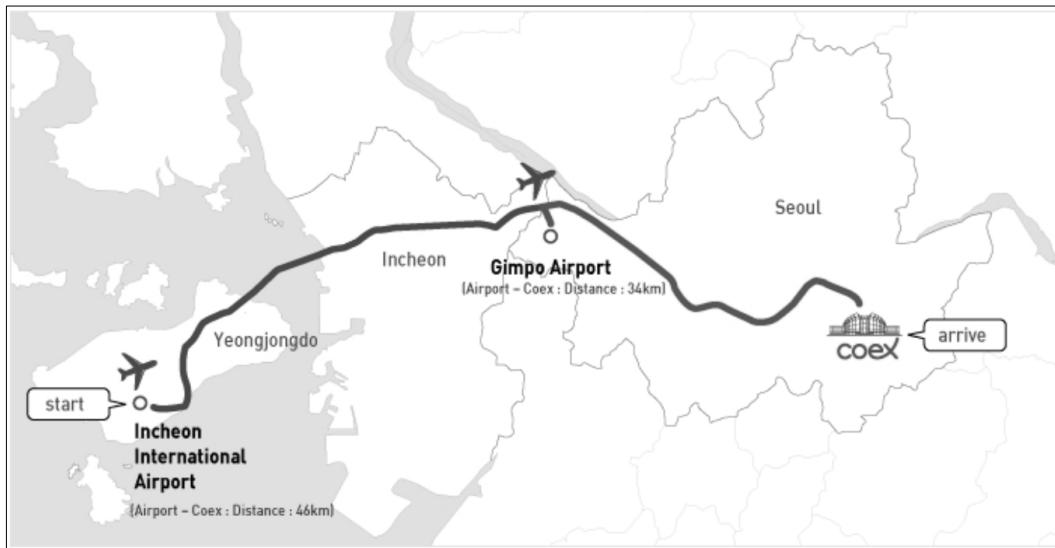
Youngkon Lee

December 17, 2011 (Saturday)

09:00 ~ 12:00 Local Exhibition

## Conference Venue

### How to get to Coex in Seoul, Korea



Coex is located in the World Trade Center Complex in Gangnam District south of the Han River in Seoul. You can find us at Samseong Station on subway line number two or at Cheongdam Station on subway line number seven.

- Address : Coex, 159 Samseong dong, Gangnam-gu, Seoul 135-731, S. Korea
- Tel : 82-2-6000-0114

### From/To Airport

#### From Incheon International Airprot - <http://www.airport.kr/>

Seoul bus Limousine Bus (No. 6006)

KAL Limousine Bus - <http://www.calt.co.kr/index.html?menu=trans&v=eng>

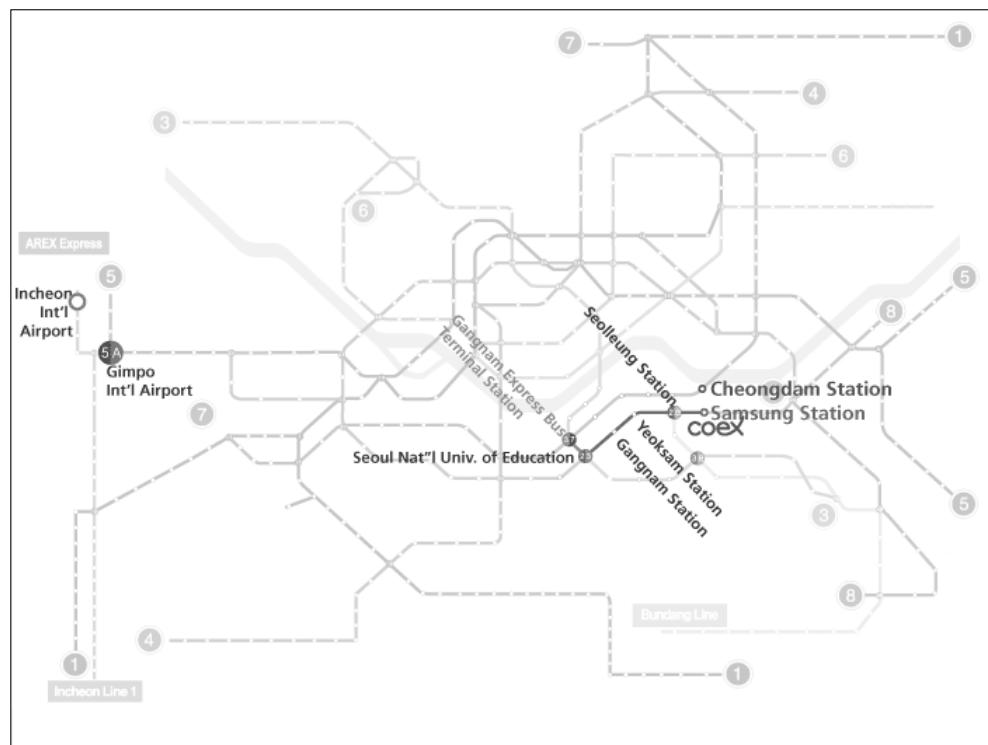
CALT Limousine Bus - [http://www.kallimousine.com/eng/schedule\\_en.asp](http://www.kallimousine.com/eng/schedule_en.asp)

## From Gimpo Airport near Coex How to get to Coex

- <http://www.calt.co.kr/index.html?menu=trans&v=eng>

CALT Limousine Bus - <http://www.calt.co.kr/index.html?menu=trans&v=eng>

### By Subway



### Coming from Samseong Station

Coming from the subway, use exit five or six connected to the Coex Mall. Follow the Coex sign and you will come out at Millennium Plaza with the Coex Mall entrance in the back of the plaza. Hyundai Department Store will be to your left and CoexArtium straight ahead.

### Coming from Cheongdam Station

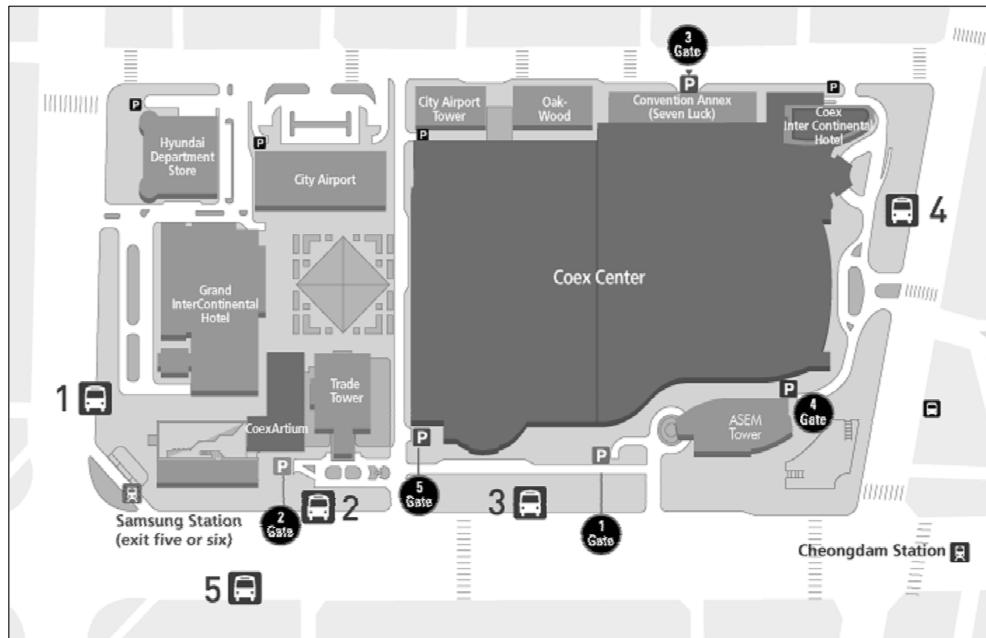
Take exit two and walk straight for about 15 minutes. You will pass Bongeun Temple on your right and soon after that you will see the Coex Complex on the right side. You can enter through North Gate or keep walking straight along the center to enter into East Gate.

# 6th CUTE

DEC. 15 - 17, 2011 COEX, Seoul, Korea

## By Bus

You can find a descriptions of Seoul's buses at



Bus stop	Blue	Bus stop
1. Grand Intercontinental Hotel	Green Yellow <b>Airport BUS</b> <b>District Bus</b>	146, 341, 360, 730 3411, 4434 41 6000 Gangnam 07
2. CoexArtium (Trade Tower)	Blue Green <b>Airport BUS</b> <b>District Bus</b>	143 2413, 4318, 4419 CALT Limousine Gangnam 01
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4. Opposite side of Bongeun Temple	Blue Green <b>Airport BUS</b>	342, 640 3411, 3412 143, 146, 301, 342, 362, 401, 640
5. Korea Electric Power Corporation (Samseong Station exit 7)	Blue Green <b>Airport BUS</b> <b>District Bus</b>	2413, 2415, 3217, 3412, 3414, 3417, 3418, 4318, 4419 CALT Limousine, CALT Limousine2 Gangnam 01, Gangnam 06

## Hotels Information

### **Hotels Information**

#### **Hotels near Coex**

- Grand intercontinental Seoul - <http://seoul.intercontinental.com/intro.htm>
- Renaissance Hotel Seoul - <http://www.renaissanceseoul.com>
- The Imperial Palace Hotel - <http://www.imperialpalace.co.kr/>
- Coex Intercontinental Seoul - <http://www.seoul.intercontinental.com/>
- The Ritz-Carlton Seoul - <http://www.ritzcarltonseoul.com/>
- Hotel Lotte World - <http://www.lottehotelworld.com/index.asp>
- Park Hyatt Seoul - <http://www.parkhyattseoul.co.kr/>
- Hotel Ellelui - <http://www.ellui.com/main/main.asp>
- Hotel Riniera - <http://www.renaissanceseoul.com/>
- Hotel Samjung - <http://www.samjunghotel.co.kr>
- Yong Dong Hotel - <http://www.youngdonghotel.co.kr>
- Hotel Ibis Seoul - <http://www.ambatel.com>