

# Curriculum Vitae

## 1. Personal Information

Name: **James Won-Ki Hong**

Citizenship: Canadian

Date of Birth: September 28, 1959

Current Employment:

Professor and Head

Division of IT Convergence Engineering

Pohang University of Science and Technology (POSTECH)

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URL: <http://dpm.postech.ac.kr/~jwkhong>



## 2. Education

1991: PhD, University of Waterloo, Canada (Computer Science)

1985: MSc., University of Western Ontario, Canada (Computer Science)

1983: HBSc., University of Western Ontario, Canada (Computer Science)

## 3. Professional Experience

2008. 12 – present: Head and Professor, Division of IT Convergence Engineering, POSTECH

2007. 3 – 2011.3: Dean, Graduate School for Information Technology, POSTECH

2008. 12 – 2010.2: Head, Dept. of Computer Science and Engineering, POSTECH

2007. 9 – 2010.2: Director, POSTECH Information Research Laboratories, POSTECH

2006. 3 – present: Full Professor, Dept. of Computer Science and Engineering, POSTECH

1999. 3 – 2006.2: Associate Professor, Dept. of Computer Science and Engineering, POSTECH

2005. 9 – 2007.8: Associate Director, POSTECH Information Research Laboratories, POSTECH

2004. 9 – 2005.8: Visiting Professor, Dept. of Electrical and Computer Engineering, U. of Toronto

2000. 6 – 2002. 2: Co-Founder & Chief Technology Officer, Netstech, Inc., Seoul, Korea

2000. 1 – 2000. 5: Co-Founder & Chief Software Architect, Yute Systems, Pohang, Korea

1996. 1 – present: Networking and Communications Technology Consultant, POSCO

1998. 9 – 2000. 8: Associate Director, POSTECH Information Research Laboratories, POSTECH

1998. 9 – 2000. 8: Associate Dean, Graduate School for Information Technology, POSTECH

1995. 5 – 1999. 2: Assistant Professor, Dept. of Computer Science and Engineering, POSTECH  
1995. 5 – 2000.4: Adjunct Professor, Dept. of Computer Science, University of Western Ontario  
1992. 5 – 1995. 5: Research Professor, Dept. of Computer Science, University of Western Ontario  
1991. 9 – 1992. 4: Post-doc Fellow, Dept. of Computer Science, University of Waterloo  
1985. 1 – 1986. 8: Research Associate, Dept. of Computer Science, University of Western Ontario

#### 4. Research Areas of Interest

Internet Traffic Monitoring & Analysis, Network and Systems Management, Autonomic Management, Network Security, Web and XML-based Management, Peer-to-Peer Computing

#### 5. Professional Activities

1. **Editorial Board Member**, IEEE Transactions on Network and Service Management (2004-present)
2. **Editorial Advisory Board Member**, Journal of Network and Systems Management, Springer (2005-present)
3. **Associate Editor**, International Journal of Network Management, Wiley Interscience (2008. 2-present)
4. **Editorial Advisory Board Member**, International Journal of Network Management, Wiley Interscience (1999.6–2008.2)
5. **Editorial Board Member**, Journal of Communications and Networks, KICS (Jan 2004 - present)
6. **Editorial Board Member**, Journal of Telecommunications Management, Henry Stewart Publications (March 2007 - present)
7. **Editorial Board Member**, Autonomic Systems Book Series, Birkhauser (Sept. 2009 - present)
8. **Guest Editor**, Annals of Telecommunications Journal, Special Issue on “Next Generation Network and Service Management,” (2007)
9. **Guest Editor**, International Journal of Network Management, Special Issue on “Operations Support Systems and Technologies for Broadband Convergence Networks and Services in Korea,” (Nov./Dec. Issue, 2006)
10. **Director of Online Content**, IEEE Communications Society Board of Governors (2010.1 – present )
11. **Chair**, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (2005. 6 – 2009.5)
12. **Steering Committee Member**, IEEE NOMS/IM Steering Committee (2003. 7 – present)
13. **Steering Committee Member**, Asia-Pacific Network Operations and Management Symposium (APNOMS) (1997 – present).
14. **General Co-Chair**, 2011 Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sept. 21-23, 2011.
15. **General Co-Chair**, 2011 International Symposium on IT Convergence Engineering (ISITCE 2011), Pohang, Korea, July 14-15, 2011.
16. **General Co-Chair**, 2010 International Symposium on IT Convergence Engineering (ISITCE 2010), Pohang, Korea, Aug. 19-20, 2010.

17. **General Co-Chair**, 2010 IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, April 19-23, 2010.
18. **Conference Operations Chair**, IEEE Global Communications Conference (Globecom 2009), Hawaii, USA, Nov. 30-Dec.4, 2009
19. **General Co-Chair**, 2009 International Symposium on IT Convergence Engineering (ITCE 2009), Pohang, Korea, Oct. 16-17, 2009.
20. **General Co-Chair**, 2008 Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), Beijing, China, Oct. 22-24, 2008.
21. **General Chair**, 2006 Asia-Pacific Network Operations and Management Symposium (APNOMS 2006), Busan, Korea, Sept. 27-29, 2006.
22. **Core Member**, TM Forum University Program (2003. 8 – present)
23. **Board Member**, Autonomic Communication Forum (ACF) (Jan 2007 - present)
24. **Editor-in-Chief**, KNOM Review Journal, (1998. 2 - present)
25. **Director of Online Content**, IEEE Communications Society Board of Governors (2004.1 – 2005.12)
26. **Board Member**, IEEE Communications Society, Marketing Board (2000. 1 – 2001. 12)
27. **Finance Chair**, IEEE/IFIP International Symposium on Integrated Network Management (IM 2009), New York, USA, June 1-6, 2009.
28. **Finance Chair**, IEEE/IFIP International Network Operations and Management Symposium (NOMS 2006), Vancouver, Canada, April 3-7, 2006.
29. **Finance Chair**, IEEE/IFIP International Symposium on Integrated Network Management (IM 2005), Nice, France, May 2005.
30. **Finance Chair and Head of Local Planning Committee**, IEEE/IFIP International Network Operations and Management Symposium (NOMS 2004), Seoul, Korea, April 19-23, 2004.
31. **Special Liaison for ComSoc Activities**, IEEE Comsoc Asia-Pacific Board (Jan. 2006 - Dec. 2007)
32. **Board Member**, IEEE Comsoc Sister Society Relations Board (Jan. 2006 - present)
33. **Board Member**, IEEE Comsoc On-Line Content Board (Jan. 2006 - Dec. 2007)
34. **Vice Chair**, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (2003. 6 – 2005.5)
35. **Executive Director of International Affairs**, KICS (2007.1- 2009.12)
36. **Chair**, KICS KNOM (2003. 1 – 2004. 12)
37. **Vice Chair**, KICS KNOM (2000. 1 – 2002. 12)
38. **Advisory Board Member**, KCC (Korea Communications Commission) (2008-Present)
39. **Advisory Board Member**, KT Operations Support System Laboratory (2001-2004)
40. Member, KCC Future Internet Steering Committee (May 2010 – present)
41. Member, KCC Mobile Internet Forum (Mar. 2010 – present)
42. Member, IEEE Comsoc Strategic Planning Committee (Jan. 2010 - present)
43. Member, IEEE Comsoc Conference Board (Jan. 2010 - present)
44. Member, IEEE Comsoc Ad-Hoc Committee on Smarphonomics (July 2010 - present)

45. **Workshop Co-Chair**, The 3rd IEEE International Workshop on the Management of Future Internet (ManFI 2011), Dublin, Ireland, May 27, 2011
46. Technical Program Committee Member, 7th IEEE/IFIP International Conference on Network and Service Management (CNSM 2011), 24-28 October 2011, Paris, France
47. Technical Program Committee Member, 4th IFIP/IEEE International Workshop on Distributed Autonomous Network Management Systems 2011 (DANMS11), May 27, 2011, Dublin, Ireland
48. Technical Program Committee Member, Fifth IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2011), Ann Arbor, Michigan, USA; October 3 - October 7, 2011
49. Technical Program Committee Member, 6th IEEE/IFIP International Conference on Network and Service Management (CNSM 2010), October 2010, Niagara Falls, Canada
50. Technical Program Committee Member, 3rd International Workshop on the Network of the Future (FutureNet III) Dec. 10, 2010, Miami, USA.
51. Technical Program Committee Member, 4th International Workshop on the Network of the Future (FutureNet IV) June 5-9, 2011, Kyoto, Japan.
52. Technical Program Committee Member, 1st Int'l Conf. on Energy-Efficient Computing and Networking (e-Energy 2010), April 12-14, 2010, University of Passau, Germany
53. Steering Committee, 2nd IEEE/IFIP International Workshop on the Management of Future Internet, (ManFI 2010) April 19, 2010, Osaka, Japan
54. Technical Program Committee Member, 1st IEEE/IFIP International Workshop on Management of Smart Grids (SmartGridMan 2010) April 23, 2010, Osaka, Japan
55. Technical Program Committee Member, 1st Int'l Workshop on Smart Grid Communications, May 23-27, 2010, Cape Town, South Africa
56. Technical Program Committee Member, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 2009
57. **Workshop Co-Chair**, 1st IEEE International Workshop on the Management of Future Internet (ManFI 2009), New York, USA, June 5, 2009
58. Technical Program Committee Member, 21st International Teletraffic Congress (ITC 2009), Sept 15-17 2009, Paris, France.
59. Technical Program Committee Member, 6th Latin-American Network Operations and Management Symposium (LANOMS 2009), October, 2009, Punta del Este, Uruguay.
60. Steering Committee Member, 5th International Week on Management of Networks and Services (Manweek 2009), 26-30 October 2009, Telecom Italia Future Centre, Venice, Italy.
61. Steering Committee Member, 12th Asia-Pacific Network Operations and Management Symposium (APNOMS 2009), 23-25 Sept. 2009, Seoul, Korea.
62. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium 2009 (GIIS 2009), Hammamet, Tunisia, June 23-25 2009.
63. Technical Program Committee Member, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 18, 2009.
64. Advisory Committee Member, 4th IEEE Workshop on Broadband Convergence Networks (BcN 2009), New York, USA, June 5, 2009.
65. Technical Program Committee Member, 3rd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2009), June 5, 2009, New York, USA.

66. Technical Program Committee Member, First International Workshop on Traffic Monitoring and Analysis (TMA 2009), Aachen, Germany, May 11 2009.
67. Technical Program Committee Member, Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2008), Venice, Italy, October 20-24, 2008.
68. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2008), Salvador, Brazil, April 7-11, 2008
69. Advisory Committee Member, 3rd IEEE Workshop on Broadband Convergence Networks (BcN 2008), Brazil, April 7, 2008
70. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), Brazil, April 7, 2008
71. Technical Program Committee Member. 19th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2008), Samos Island, Greece, Sept. 22-26 2008
72. Technical Program Committee Member, 3rd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2008), Samos Island, Greece, Sept. 22-26 2008
73. Technical Program Committee Member, 2nd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2008), April 11, 2008, Salvador, Brazil
74. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium Petropolis, Brazil, September 10-12, 2007
75. Technical Program Committee Member, 18th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2007), Silicon Valley, CA October 29-31, 2007
76. Technical Program Committee Member, 2nd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2007), Silicon Valley, CA October 29-30, 2007
77. Technical Program Committee Member, 2nd IEEE International Workshop on Distributed Autonomous Network Management Systems (DANMS), Washington, USA, 26-30 November 2007.
78. Program Committee Member, IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2007), Boston, USA, July 9-11, 2007
79. Technical Program Committee Member, IEEE International Symposium on Integrated Management (IM 2007), Munich, Germany, May 21-25, 2007
80. Technical Program Committee Member, IEEE International Design and Reliable Communication Networks (DCRN 2007) France, Oct. 7-10, 2007, <http://www.drcn2007.org/>
81. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), May 21 2007, Munich, Germany
82. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium (GIIS 2007), Marrakech, Morocco on July 2-5, 2007
83. Technical Program Committee Member, IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems, Boston, Mass., USA, July 9-11, 2007
84. Technical Program Committee Member, 17th IFIP/IEEE International Workshop on Distributed Systems (DSOM 2006), Dublin, Ireland, October 23-25, 2006.
85. Technical Program Committee Member, 8th International Symposium on System and Information Security, Sao Paulo, Brazil, November 08-10, 2006
86. Technical Chair, KICS KNOM (1996. 1 – 2000. 5)
87. Technical Program Committee Member, 1st IEEE Workshop on Autonomic Communication and

- Network Management (ACNM 2007), Munich, Germany, May 25, 2006
88. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium, Petropolis, Brazil, September 10-12, 2007
  89. Technical Chair, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (1998. 6 – 2000. 6)
  90. Technical Program Co-Chair, 2000 IEEE/IFIP International Network Operations and Management Symposium (NOMS2000), Hawaii, USA, April 10-14, 2000.
  91. Technical Program Co-Chair, 1999 Asia-Pacific Network Operations and Management Symposium (APNOMS'99), Kyongju, Korea, Sept. 15-17, 1999.
  92. Technical Program Committee Member, IFIP/IEEE International Workshop on Distributed Systems Operations and Management (DSOM 2005), Barcelona, Spain, Oct. 24-26, 2005.
  93. Technical Program Committee Member, The 4th Latin American Network Operations and Management Symposium, Porto Alegre, Brazil, August 29-31, 2005.
  94. Technical Program Committee Member, The 3rd Latin American Network Operations and Management Symposium (LANOMS'03), Foz do Iguacu, Parana, Brazil, September 4-6, 2003.
  95. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2003), Colorado Springs, USA, March 2003.
  96. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS2002), Florence, Italy, April 15-19, 2002.
  97. Technical Program Committee Member, The 7<sup>th</sup> Annual Global Internet Symposium, Taipei, Taiwan, November 17-21, 2002.
  98. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2001), Nancy, France, October, 2001.
  99. Organizing Committee Member, 2001 Asia-Pacific Network Operations and Management Symposium (APNOMS 2001), Sydney, Australia, September 26-28, 2001.
  100. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2001), Seattle, USA, May 2001.
  101. Technical Program Committee Member, 2000 IEEE/IFIP International Conference on Management of Multimedia Networks and Services (MMNS 2000), Fortaleza, Brazil, July 26-28, 2000.
  102. Technical Program Committee Member, 2000 IEEE Workshop on IP-oriented Operations & Management (IPOM 2000), Cracow, Poland, September 4-6, 2000
  103. Organizing Committee Member, 2000 Asia-Pacific Network Operations and Management Symposium (APNOMS 2000), Nara, Japan, September 2000.
  104. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2000), Austin, TX, USA, December, 2000.
  105. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'99), Boston, USA, May, 1999.
  106. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'98), Delaware NJ, USA, Oct. 1998.
  107. Organizing Committee Member, 1998 Asia-Pacific Network Operations and Management Symposium (APNOMS'98), Sendai, Japan, Sept. 16-18, 1998.
  108. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS'98), New Orleans, USA, Feb., 1998.

109. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'97), San Diego, CA, USA, May 12-16, 1997.
110. International Liaison Chair, 1997 Asia-Pacific Network Operations and Management Symposium (APNOMS'97), Seoul Korea, Oct. 8-10, 1997.
111. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'97), Sydney Australia, Oct. 21-23, 1997.
112. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium, Kyoto, Japan, April 1996.
113. Technical Program Member, 1996 IEEE International Workshop on Systems Management (SMW2), Toronto, Canada, June 1996.
114. Technical Program Committee & Organizing Committee Member, 1996 IEEE International Symposium on Network Operations and Management (ISNOM'96), Seoul, Korea, October 1996.

## **6. Research Grants & Projects**

1. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MKE) (Oct. 2010 – Aug. 2011), 4,150,000,000 Won
2. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2011 – Dec. 2011) 54,000,000 Won
3. Semantic-based Movie Recommender System, KT (June 2010 – Nov. 2010) 100,000,000 Won
4. Self-Organizing Network Expert System (SONES), Samsung Electronics (May 2010 – Oct. 2010) 60,000,000 Won
5. HiMang Future Internet Project, ETRI (Mar. 2010 – Feb. 2011) 150,000,000 Won
6. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2010 – Dec. 2010) 60,000,000 Won
7. Cognitive Network Management System, KIAT (Nov. 2009 – Oct. 2010) 20,000,000 Won
8. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MKE) (Nov. 2009 – Sep. 2010), 4,150,000,000 Won
9. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2009 – Dec. 2009) 40,000,000 Won
10. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and Analysis Research (MKE) (Jan. 2009 - Dec.2009) 75,000,000 Won

11. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MKE) (Dec. 2008 – Oct. 2009),  
4,274,000,000 Won
12. Research on Traffic Control of Interconnection area among ISPs (KT) (Jul. 2008 – Nov. 2008)  
35,000,000 Won
13. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and  
Analysis Research (MKE) (Mar. 2008 - Dec.2008)  
60,000,000 Won
14. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC,  
IITA) (Jan. 2008 – Dec. 2008)  
40,000,000 Won
15. Fault Detection and Prediction of POSCO Control Networks (POSCO) (Feb. 2007 – Jan. 2008)  
200,000,000 Won
16. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC,  
IITA) (Sept. 2007 – Dec. 2008)  
60,000,000 Won
17. Research on Effective Planning of All-IP Networks (POSCO) (Jan. 2007 – Dec. 2007)  
272,840,000 Won
18. Traffic Analysis of Access Networks for Triple Play Service (KT) (June 2007 – Nov. 2007)  
39,000,000 Won
19. Research on SNMP-based Management of Tactical Networks (Samsung Thales) (Jan. 2007 – Dec.  
2007)  
50,000,000 Won
20. Integrated Remote Fault Analysis of POSCO Control Networks (POSCO) (Jun. 2006 – May 2007)  
250,000,000 Won
21. Realization of TSA using Web Services from NGOSS TNA (KT) (Apr. 2006 – Nov. 2006)  
50,000,000 Won
22. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC,  
IITA) (Sept. 2005 – Aug. 2007)  
100,000,000 Won
23. Implementation of Manager for Broadband Power Line Communication Network Management  
System (KEPCO) (Sept. 2005 – Aug. 2008)  
165,000,000 Won
24. KT Operations Support System Laboratory (September 2005 – December 2005),  
Internet Application Traffic Identification  
30,000,000 Won
25. Electronics and Telecommunications Research Institute (ETRI), (May 2005 – Oct. 2005)  
A Performance Evaluation Study on WBEM Implementations,  
30,000,000 Won

26. Korea Industrial Technology Foundation (KOTEF), (Dec. 2003 – Aug. 2005)  
“Internet Traffic Monitoring, Analysis and Control”  
200,000,000 Won
27. Electronics and Telecommunications Research Institute (ETRI), (May 2004 – Nov. 2004)  
“Development of CIM/WBEM-based Systems Management Framework”  
50,000,000 Won
28. National Security Research Institute (NSRI), (Apr. 2004 – Nov. 2004)  
“Analysis of Internet Worm Traffic”  
20,000,000 Won
29. KTF (Oct. 2003 - Apr. 2004),  
“Research on KTF New Generation Integrated OSS Architecture”,  
45,000,000 Won.
30. Electronics and Telecommunications Research Institute (ETRI), (Aug. 2003 - Dec. 2003),  
“Development of Secure Internet Router for Detecting DDoS Attacks”,  
28,500,000 Won.
31. KT (June 2003 - Dec. 2003),  
“Research on Network Security Attack Detection Methods Based on Internet Traffic Monitoring  
and Analysis”,  
29,400,000 Won.
32. DACOM (Apr. 2003 - Nov. 2003),  
“Development and Deployment of Network Monitoring and Analysis System”,  
40,000,000 Won.
33. PIRL, POSTECH (Dec. 2002 - Nov. 2003),  
“Research on High-Speed Network Monitoring and Analysis Methods”,  
12,000,000 Won.
34. HY-SDR Research Center (Aug. 2002 - July 2003),  
“Research on Detecting Methods for Internet Security Attacks via Traffic Monitoring”,  
20,000,000 Won.
35. KT (Aug. 2002 – Nov. 2002)  
“A Study on Value-Added Services for High-Speed Broadband Internet Service Providers”,  
27,000,000 Won.
36. Ifeelnets Inc., (Feb. 2002 – Feb. 2003),  
“Research on Efficient IP Network Traffic Monitoring and Analysis Methods”,  
30,000,000 Won.
37. POSCO, (Jan. 2000 - June 2001),  
“Development of Internet Server Technology Supporting Differentiated QoS Services”,  
342,396,933 Won.
38. Electronics and Telecommunications Research Institute (ETRI), (Apr. 2000 - Oct. 2000),  
“Development of Resource Management Server System for QoS Routing and Resource  
Monitoring”,

- 40,000,000 Won.
39. POSCO, (Jan. 2000 - Dec. 2000),  
“Research on LAN Configuration, Traffic Monitoring and Control in High-Speed Switching LANs”,  
288,215,499 Won.
  40. POSCO, (Jan. 2000 - Dec. 2000),  
“Research on Voice, Video and Data Integration for POSCO Network”,  
310,667,662 Won.
  41. POSCO, (Jan. 1999 - Dec. 1999),  
“Research on POSCO Enterprise Network Planning”,  
253,463,000 Won.
  42. POSCO, (Jan. 1999 - Dec. 1999),  
“Development of Lightweight and High-Performance Web Cache Server”,  
15,675,000 Won.
  43. Korea Telecom, (Jan. 1999 - Dec. 1999),  
“TMN-based Integrated Network Management Using Web Technology (II),  
63,243,000 Won.
  44. POSDATA, (Oct. 1998 - May 1999),  
“Development of PC-based Multimedia Applications”,  
43,600,000 Won.
  45. OpenTech, (May 1998 - Oct. 1998),  
“DCE Management Subsystem Development”,  
10,234,000 Won.
  46. Korea Telecom, (Feb. 1998 - Dec. 1998),  
“TMN-based Integrated Network Management Using Web Technology (I)”,  
43,600,000 Won.
  47. ETRI, (Apr. 1998 - Nov. 1998),  
“Research on Service Management Using Distributed Object-Oriented Technology”, 20,000,000  
Won.
  48. System Engineering Research Institute (SERI), (Nov. 1997 - June 1998),  
“Development of UNIX Workstation-based Remote Research Collaboration Platform”,  
50,000,000 Won.
  49. SERI, (May 1997 - Mar. 1998),  
“A Study on Developing QoS MIB for Managing Application Services”,  
20,000,000 Won.
  50. ETRI, (Mar. 1997 - Nov. 1997),  
“A Study on Management of Internet Application Services”,  
30,000,000 Won.
  51. POSCO, (Oct. 1996 - Aug. 1997),  
“Planning for Efficient Utilization of POSCO Computing Resources”,

- 199,626,000 Won.
52. Samsung Electronics, (Sept. 1996 - Aug. 1998),  
“Development of DMI-based Samsung PC Server Management System”,  
230,000,000 Won.
  53. ETRI, (Apr. 1996 - Nov. 1996),  
“A Study on the Standardization of Distributed Systems Software”,  
30,000,000 Won.
  54. Korea Research Foundation, (Dec. 1995 - Nov. 1997),  
“Management of Distributed Multimedia Systems and Applications”,  
30,000,000 Won.
  55. Pohang University of Science and Technology, (Sept. 1995 - Aug. 1996),  
“Management of Distributed Systems and Applications”,  
30,000,000 Won.
  56. POSTECH Information Research Laboratories, (Sept. 1995 - Aug. 1996),  
“A Study on Support for Distributed Management of Networks and Systems”,  
20,000,000 Won.

**\* For details on these projects, please visit my research lab homepage (<http://dpm.postech.ac.kr>)**

## 7. Refereed Publications

### A. International Journal Papers

1. Joon-Myung Kang, John Strassner, Sin-seok Seo, James Won-Ki Hong, "Autonomic Personalized Handover Decisions for Mobile Services in Heterogeneous Wireless Networks", *Computer Networks*. In Press (SCIE:1.201) (Available online 10 February 2011).
2. Suman Pandey, Young J. Won, James Won-Ki Hong, and John Strassner, "Dimensioning Internet Protocol Television Video on Demand Services", *International Journal of Network Management (IJNM)*. Online available, February 9, 2011 (SCIE).
3. Suman Pandey, Mi-Jung Choi, Young J. Won, James Won-Ki Hong, "SNMP-based Enterprise IP Network Topology Discovery," *International Journal of Network Management (IJNM)*, 2010. (Online version available) (SCIE)
4. Chang-Keun Park, Joon-Myung Kang, Mi-Jung Choi, James Won-Ki Hong, Yong-hun Lim, Seongho Ju, and Moon-suk Choi, "Development and Testing of an SNMP-based Integrated Management System for Heterogeneous Power Line Communication Networks," *International Journal of Network Management*. Vol. 20, Issue 1, pp. 35-55, Jan./Feb. 2010. (SCIE)
5. Joon-Myung Kang, Hong-Taek Ju, Mi-Jung Choi, James Won-Ki Hong, and Jun-Gu Kim, "OMA DM-based Remote Software Fault Management for Mobile Devices", *International Journal of Network Management*, Vol. 19, Issue 6, pp. 491-511, Nov./Dec. 2009. (SCIE)
6. Young J. Won, Mi-Jung Choi, James W. Hong, Chan-Kyu Hwang, and Jae-Hyoung Yoo, "Measurement of Download and Play and Streaming IPTV Traffic," *IEEE Communications Magazine*, Vol. 46, No. 10, October, 2008, pp. 154-161. (SCI)
7. Young J. Won, Mi-Jung Choi, James Won-Ki Hong, Myung-Sup Kim, Hwawon Hwang, Jun-Hyub Lee, and Sung-Gyoo Lee, "Fault Detection and Diagnosis in IP-based Mission Critical Industrial Process Control Networks," *IEEE Communications Magazine*, Vol. 46, No. 5, May 2008, pp. 172-180. (SCI)
8. Mi-Jung Choi, Hong-Taek Ju, James Won-Ki Hong and Dong-Sik Yun, "Desing and Implementation of Web Services-based NGOSS Technology Specific Architecture," *Annals of Telecommunications, Special Issue on Next Generation Network and Service Management*, Vol. 63, No. 3-4, April 2008, pp. 195-206 (SCI)
9. Mi-Jung Choi and James Won-Ki Hong, "Towards Management of Next Generation Networks," *IEICE Transactions on Communications*, Vol. E90-B, No. 11, November 2007, pp. 3004~3014. (SCI)
10. Jae-Jo Lee, Choong Seon Hong, Joon-Myung Kang, and James Won-Ki Hong, "Power line communication network trial and management in Korea," *International Journal of Network Management (IJNM)*, Vol. 13, Issue 6, Special Issue, November/December 2006, pp 443-457
11. Myung-Sup Kim, Young J. Won, and James W. Hong, "Characteristic Analysis of Internet Traffic from the Perspective of Flows," *Computer Communications*, Volume 29, Issue 10, June 19 2006, pp. 1639-1652 (SCI).

12. Yu Cheng, Ramy Farha, Myung Sup Kim, Alberto Leon-Garcia, and James Won-Ki Hong, "A Generic Architecture for Autonomic Service and Network Management," *Computer Communications*, Vol. 29, Issue 18, Nov. 2006, pp. 3691-3709 (SCI).
13. Yu Cheng, Ramy Farha, Ali Tizghadam, Myung Sup Kim, Massoud Hashemi, Alberto Leon-Garcia, and James Won-Ki Hong, "Virtual Network Approach to Scalable IP Service Deployment and Efficient Resource Management," *IEEE Communications Magazine*, Vol. 43, No. 10, Oct. 2005, pp. 76-84 (SCI)
14. Myung-Sup Kim, Young J. Won, and James Won-Ki Hong, "Application-Level Traffic Monitoring and Analysis on IP Networks," *ETRI Journal*, Vol.27, No.1, Feb. 2005, pp.22-42. (SCI)
15. Mi-Jung Choi, Hyoun-Mi Choi, Hong-Taek Ju and James W. Hong, "XML-based Configuration Management for IP Network Devices", Special Issue on XML-based Management of Networks and Services in *IEEE Communications Magazine*, Vol. 41, No. 7, July 2004. pp. 84-91. (SCI).
16. Hun-Jeong Kang, Myung-Sup Kim, James Won-Ki Hong "Streaming Media and Multimedia Conferencing Traffic Analysis Using Payload Examination," *ETRI Journal*, Vol.26, No.3, June 2004, pp.203-217. (SCI)
17. Mi-Jung Choi, James W. Hong and Hong-Taek Ju, "Towards XML-based Network Management for IP Networks", *ETRI Journal*, vol.25, no.6, Dec. 2003, pp.445-463. (SCI)
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#### **D. Patents**

1. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Handover decision by using Context Information in a Next-Generation Mobile Communications Network," Patent No.: 11/907,547, USA, 2007.10.15 (Applicant: POSTECH) - Accepted to Register (2011.01.19)
2. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.:09005896.7, Europe(EPO), 2009.05.05 (Applicant: POSTECH) (Accepted to Register) - UK, Germany, France
3. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Handover decision by using Context Information in a Next-Generation Mobile Communications Network," Patent No.: 4571663 (2007-271645), Japan, 2010.08.20 (Applicant: POSTECH)
4. James Won-Ki Hong and Joon-Myung Kang, "Method for Predicting Available Time Remaining on Battery in Mobile Devices Based on Usage Patterns," Patent No.:2009-118340, Japan, 2009.05.26 (Applicant: POSTECH)
5. James Won-Ki Hong and Joon-Myung Kang, "Method for Predicting Available Time Remaining on Battery in Mobile Devices Based on Usage Patterns," Patent No.:09005895.9, Europe(EPO), 2009.05.05 (Applicant: POSTECH) (FILED)
6. James Won-Ki Hong and Joon-Myung Kang, "Method for Predicting Available Time Remaining on Battery in Mobile Devices Based on Usage Patterns," Patent No.:12/453,141, USA, 2009.05.27 (Applicant: POSTECH) (FILED)
7. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.:2009-118341, Japan, 2009.05.29 (Applicant: POSTECH) (FILED)
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9. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.:12/453,142, USA, 2009.05.27 (Applicant: POSTECH) (FILED)
10. Joon-Myung Kang and James Won-Ki Hong, "Method and Apparatus for Handover decision by using Context Information in a Next-Generation Mobile Communications Network," Patent No.: 07020430.0-1249, Europe(EPO), 2007.10.18 (Applicant: POSTECH) (FILED)
11. Joon-Myung Kang and James Won-Ki Hong, "Method and Apparatus for Handover decision by using Context Information in a Next-Generation Mobile Communications Network," Patent No.: 11/907,547, USA, 2007.10.15 (Applicant: POSTECH) (FILED)
12. James Won-Ki Hong and Joon-Myung Kang, "Method for Predicting Available Time Remaining on Battery in Mobile Devices Based on Usage Patterns," Accepted to register (2010.09.02), Patent No.:10-2008-0054424, Korea, 2009.05.27 (Applicant: POSTECH)
13. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.:10-0969567, Korea, 2010.07.05

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14. James Won-Ki Hong, Chang-Keun Park, Munsuk Choi, Seongho Ju, Younghyun Kim, Yonghun Im, Byeongsuk Park, Bumseok Lee, "Multi-vendor Power Line Communication Management System and Method Thereof," Patent No.:10-0886625, Korea, 2010.07.05 (Applicant: KEPCO)
15. Joon-Myung Kang and James Won-Ki Hong, "Method and Apparatus for Handover decision by using Context Information in a Next-Generation Mobile Communications Network," Patent No.: 10-0809260, Korea, 2008.02.25 (Applicant: POSTECH)
16. James Won-Ki Hong, Myung-Sup Kim, and Young J. Won, "Traffic Analysis Apparatus in IP Network Environments," Patent No.: 10-0710047, Korea, 2007.04.16 (Applicant: POSTECH)
17. James Won-Ki Hong, Hun-Jeong Kang, Myung-Sup Kim, "Multimedia Service Traffic Monitoring System and Method," Patent No.:10-0548923, 2006.01.25 (Applicant: POSTECH)
18. James Won-Ki Hong, Yoon-Jung Oh, Mi-Jung Choi, "XML/SNMP Gateway for Integrated Network Management," Patent No.: 10-0503826, Korea, 2005.07.18 (Applicant: POSTECH)
19. James Won-Ki Hong, Hong-Taek Ju, Mi-Jung Choi, "Embedded Web Server for Network Element Management," Patent No.: 10-0710047, Korea, 2002.10.17 (Applicant: POSTECH)
20. James Won-Ki Hong, Joon-Myung Kang, Sin-Seok Seo, "Method of Automated Answering in Mobile Communication System and Apparatus for the Same," Patent No.: 10-2010-0081790, Korea, 2010.08.24 (Applicant: POSTECH) (FILED)
21. James Won-Ki Hong and Joon-Myung Kang, "Method for Providing Autonomic Management of Software System, Recording Medium Storing Program for Performing the Same and System Having Function of Autonomic Management of Software," Patent No.: 10-2010-0032564, Korea, 2010.04.09 (Applicant: POSTECH) (FILED)
22. John Strassner, James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Providing and Managing Personalized Services," Patent No.: 10-2010-0033286, Korea, 2010.04.12 (Applicant: POSTECH) (FILED)
23. James Won-Ki Hong, Young J. Won, and Sung-Su Kim, "Network Autonomic Management System," Patent No.: 10-2010-0006325, Korea, 2010.01.25 (Applicant: POSTECH) (FILED)
24. James Won-Ki Hong, Young J. Won, and Jae Yoon Chung, "Signature Generation Apparatus for
25. Network Behavior of Applications, Collection Server, Detection System for Network Behavior, and Signature Generation Method for Network Behavior," Patent No.: 10-2009-0046093, Korea, 2009.05.26 (Applicant: POSTECH) (FILED)

## **8. Invited Talks and Tutorials**

1. James Won-Ki Hong, "Smartphonomics: Convergence using Smart Phones and Devices," Hochimin City University of Science, Hochimin City, Vietnam, Jan. 10, 2011
2. James Won-Ki Hong, "Smartphonomics: Convergence using Smart Phones and Devices," Hochimin City University of Technology, Hochimin City, Vietnam, Jan. 11, 2011

3. James Won-Ki Hong, "Traffic Measurement: Methods, Challenges and Experiences", Tutorial, International Conference on Autonomic Infrastructure, Management and Security (AIMS 2008), Bremen, Germany, July 1, 2008.
4. James Won-Ki Hong, "PLC Network Management Technology," Invited Talk, KERI (Korea Electrotechnology Research Institute), Euwangsi, Korea, March 16, 2007.
5. James Won-Ki Hong, "4G Network Operations and Management," Invited Talk, Dept. of Electrical and Computer Engineering, University of Toronto, Toronto, Canada, July 6, 2005.
6. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Globecom, Dallas, USA, Dec 3, 2004.
7. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Conference on Communications (ICC), Paris, France, June 20, 2004.
8. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, Dept. of Computer Science, Purdue University, West Lafayette, USA, Oct. 22, 2004.
9. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, Dept. of Electrical and Computer Engineering, Univ. of Toronto, Toronto, Canada, Feb. 26, 2004.
10. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Invited Keynote Talk, ICACT 2004, Pheonix Park, Korea, Feb. 9, 2004.
11. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2003 IEEE Globecom, San Francisco, USA, Dec. 5, 2003.
12. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, HP Labs, Palo Alto, CA, USA, Dec. 4, 2003.
13. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, Sprint Labs, Burlingame, CA, USA, Dec. 2, 2003.
14. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2003 IEEE/IFIP International Symposium on Integrated Network Management (IM 2003), Colorado Springs, USA, March 24, 2003.
15. J. Won-Ki Hong, "Traffic Measurement for High-Speed Internet", 2003 ICAT Workshop, Seoul, Korea, April 30, 2003.
16. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Changwon University, Changwon, Korea, May 2, 2003.
17. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Samsung Electronics, Suwon, Korea, May 13, 2003.

18. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", KT OSS Labs, Daejeon, Korea, July 4, 2003.
19. J. W. Hong, "Network Monitoring and Analysis for SLA Management", 2002 KNOM Tutorial, June 21, 2002.
20. J. W. Hong, "Personal Service Platform for Enabling Value-Added Services in the Broadband Internet", KT Telecommunication Network Research (TNR) Lab. Seminar, May 14, 2002.
21. J. W. Hong, "IP Network Traffic Monitoring and Analysis", KT Operations Support Systems (OSS) Lab. Seminar, April 16, 2002.
22. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APCC 2000, Oct. 30, 2000, Seoul, Korea.
23. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", IBM T. J. Watson Center, Hawthorne, NY, USA, January 5, 2000.
24. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", Lucent Bell Labs, Holmdel, New Jersey, USA, January 7, 2000.
25. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", Dept of Computer Science, North Carolina State University, Raleigh, North Carolina, USA, January 11, 2000.
26. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", AT&T Research, Floham Park, New Jersey, USA, January 14, 2000.
27. J. W. Hong, "Policy-based Network Management", NETSECKR 2000, Seoul Korea, May 2000.
28. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE/IFIP 1999 International Symposium on Integrated Network Management, Boston MA, May 1999.
29. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE International Conference on Communications, June, 1999, Vancouver, Canada.
30. J. W. Hong, "Computer Networking, Internet & Home Networking", Seminar, LG Electronics, Seoul, Korea, October 23, 1999.
31. J. W. Hong, "Internet/Intranet Network Monitoring, Analysis and Reporting using Web Technology", KEPRI, Taejeon, Korea, March 13, 1998.
32. J. W. Hong, "Web-based Enterprise Network Management", Korea Telecom, Taejeon, Korea, April 8, 1998.
33. J. W. Hong, "Web-based Network and Systems Management" Tutorial, APNOMS'98, Sendai Japan,

Sept. 1998.

34. J. W. Hong, "Web-based Network Management" Daewoo Telecom, Seoul, December 2, 1998.
35. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APNOMS'97, Seoul, Korea, October 8, 1997.

## 9. Student Supervisions

### A. PhD Thesis

1. Joon-Myung Kang, PhD Thesis  
"Autonomic Management for Personalized Handover Decisions in Heterogeneous Wireless Networks"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Dec. 2010.
2. Young J. Won, PhD Thesis  
"Fault Detection, Diagnosis, and Prediction for IP-based Industrial Control Networks",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Nov. 2009.
3. Myung-Sup Kim, PhD Thesis  
"Application-Level Traffic Monitoring and Analysis on IP Networks",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, June 2004.
4. Mi-Jung Choi, PhD Thesis  
"An Architectural Framework for XML-based Network Management",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2003.
5. Hong-Taek Ju, PhD Thesis  
"Embedded Web Server Architecture for Web-based Element Management and Network Management",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, October 2001.
6. Jae-Young Kim, PhD Thesis  
"Distributed Edge-to-Edge QoS Monitoring Methods to Manage Traffic Flows in IP Networks Supporting Differentiated Services",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, October 2001.

### B. MS Thesis

1. Jin Kim, MS Thesis  
"An Ontology Model and Reasoner to Build an Autonomic System for U-Health Smart Home",  
Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea,  
Completed, December 2009.

2. Suman Pandey, MS Thesis,  
“Dimensioning IPTV VoD Services,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, August 2009
3. Sung-Joo Lee, MS Thesis,  
“A Study On Real-Time Traffic Information Analysis using WiBro in Intelligent Transportation System,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2008.
4. Chang-Keun Park, MS Thesis  
“An SNMP-based Integrated Management Method for Heterogeneous Power Line Communication Networks,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, June 2008.
5. Kwang-Bon Jung, MS Thesis,  
“Application-Level Classification for Internet Traffic based on ML Algorithms,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2007.
6. Eun-Hee Kim, MS Thesis,  
“Design and Implementation of Enterprise IP Network Connectivity Information Management System,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2006.
7. Deepali Agrawal, MS Thesis,  
“Cause Analysis of Packet Loss in Underutilized Enterprise Network Links,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.
8. Young-Joon Won, MS Thesis,  
“A Hybrid Approach for Accurate Application Traffic Identification,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
9. Sun-Mi Yoo, MS Thesis,  
“Performance Improvement Methods for NETCONF-based Configuration Management,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
10. LONGQUAN ZHAO, MS Thesis,  
“A Real-Time Detection Method for Internet Worms on Enterprise Networks,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
11. Hyung-Jo Lee, MS Thesis,  
“IP Traffic based Accounting for Internet Services,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
12. Sojung Lee, MS Thesis,  
“Design and Implementation of WBEM/SNMP Gateway,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
13. Seunghwa Chung, MS Thesis,  
“Detection and Analysis of Packet Loss in Underutilized Links” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.

14. Dong-Hyun Kim, MS Thesis,  
 "Web Services based Configuration Management for IP Network Devices," Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.
15. Hyun-Mi Choi, MS Thesis,  
 "XML-based Configuration Management for IP Network Devices", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2003.
16. Yoon-Jung Oh, MS Thesis,  
 "Interaction Translation Methods for XML/SNMP Gateway", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2002.
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