

Curriculum Vitae

1. Personal Information

Name: **James Won-Ki Hong**

Citizenship: Canadian

Date of Birth: September 28, 1959

Current Employment:

Professor and Head

Dept. of Computer Science and Engineering

Pohang University of Science and Technology (POSTECH)

San 31 Hyoja, Namgu, Pohang, Korea 790-784

Tel: +82-54-279-2244

Fax: +82-54-279-5663

Mobile: +82-11-810-5641

Email: jwkhong@postech.ac.kr

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, Dept. of Computer Science and Engineering, POSTECH

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

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

2007. 9 – present: 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**, 2010 IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, April 19-23, 2010.
15. **Conference Operations Chair**, IEEE Global Communications Conference (Globecom 2009), Hawaii, USA, Nov. 30-Dec. 4, 2009
16. **General Co-Chair**, 2009 International Symposium on IT Convergence Engineering (ITCE 2009), Pohang, Korea, Oct. 16-17, 2009.

17. **General Co-Chair**, 2008 Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), Beijing, China, Oct. 22-24, 2008.
18. **General Chair**, 2006 Asia-Pacific Network Operations and Management Symposium (APNOMS 2006), Busan, Korea, Sept. 27-29, 2006.
19. **Core Member**, TM Forum University Program (2003. 8 – present)
20. **Board Member**, Autonomic Communication Forum (ACF) (Jan 2007 - present)
21. **Editor-in-Chief**, KNOM Review Journal, (1998. 2 - present)
22. **Director of Online Content**, IEEE Communications Society Board of Governors (2004.1 – 2005.12)
23. **Board Member**, IEEE Communications Society, Marketing Board (2000. 1 – 2001. 12)
24. **Finance Chair**, IEEE/IFIP International Symposium on Integrated Network Management (IM 2009), New York, USA, June 1-6, 2009.
25. **Finance Chair**, IEEE/IFIP International Network Operations and Management Symposium (NOMS 2006), Vancouver, Canada, April 3-7, 2006.
26. **Finance Chair**, IEEE/IFIP International Symposium on Integrated Network Management (IM 2005), Nice, France, May 2005.
27. **Finance Chair and Head of Local Planning Committee**, IEEE/IFIP International Network Operations and Management Symposium (NOMS 2004), Seoul, Korea, April 19-23, 2004.
28. **Special Liaison for ComSoc Activities**, IEEE Comsoc Asia-Pacific Board (Jan. 2006 - Dec. 2007)
29. **Board Member**, IEEE Comsoc Sister Society Relations Board (Jan. 2006 - present)
30. **Board Member**, IEEE Comsoc On-Line Content Board (Jan. 2006 - Dec. 2007)
31. **Vice Chair**, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (2003. 6 – 2005.5)
32. **Executive Director of International Affairs**, KICS (2007.1- 2009.12)
33. **Chair**, KICS KNOM (2003. 1 – 2004. 12)
34. **Vice Chair**, KICS KNOM (2000. 1 – 2002. 12)
35. **Advisory Board Member**, KCC (Korea Communications Commission) (2008-Present)
36. **Advisory Board Member**, KT Operations Support System Laboratory (2001-2004)
37. **Member**, IEEE Comsoc Strategic Planning Committee (Jan. 2010 - present)
38. **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
39. **Steering Committee**, 2nd IEEE/IFIP International Workshop on the Management of Future Internet, (ManFI 2010) April 19, 2010, Osaka, Japan
40. **Technical Program Committee Member**, 1st IEEE/IFIP International Workshop on Management of Smart Grids (SmartGridMan 2010) April 23, 2010, Osaka, Japan
41. **Technical Program Committee Member**, 1st Int'l Workshop on Smart Grid Communications, May 23-27, 2010, Cape Town, South Africa
42. **Technical Program Committee Member**, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 2009
43. **Workshop Co-Chair**, 1st IEEE International Workshop on the Management of Future Internet

- (ManFI 2009), New York, USA, June 5, 2009
44. Technical Program Committee Member, 21st International Teletraffic Congress (ITC 2009), Sept 15-17 2009, Paris, France.
 45. Technical Program Committee Member, 6th Latin-American Network Operations and Management Symposium (LANOMS 2009), October, 2009, Punta del Este, Uruguay.
 46. Steering Committee Member, 5th International Week on Management of Networks and Services (Manweek 2009), 26-30 October 2009, Telecom Italia Future Centre, Venice, Italy.
 47. Steering Committee Member, 12th Asia-Pacific Network Operations and Management Symposium (APNOMS 2009), 23-25 Sept. 2009, Seoul, Korea.
 48. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium 2009 (GIIS 2009), Hammamet, Tunisia, June 23-25 2009.
 49. Technical Program Committee Member, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 18, 2009.
 50. Advisory Committee Member, 4th IEEE Workshop on Broadband Convergence Networks (BcN 2009), New York, USA, June 5, 2009.
 51. Technical Program Committee Member, 3rd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2009), June 5, 2009, New York, USA.
 52. Technical Program Committee Member, First International Workshop on Traffic Monitoring and Analysis (TMA 2009), Aachen, Germany, May 11 2009.
 53. Technical Program Committee Member, Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2008), Venice, Italy, October 20-24, 2008.
 54. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2008), Salvador, Brazil, April 7-11, 2008
 55. Advisory Committee Member, 3rd IEEE Workshop on Broadband Convergence Networks (BcN 2008), Brazil, April 7, 2008
 56. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), Brazil, April 7, 2008
 57. Technical Program Committee Member. 19th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2008), Samos Island, Greece, Sept. 22-26 2008
 58. Technical Program Committee Member, 3rd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2008), Samos Island, Greece, Sept. 22-26 2008
 59. Technical Program Committee Member, 2nd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2008), April 11, 2008, Salvador, Brazil
 60. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium Petropolis, Brazil, September 10-12, 2007
 61. Technical Program Committee Member, 18th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2007), Silicon Valley, CA October 29-31, 2007
 62. Technical Program Committee Member, 2nd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2007), Silicon Valley, CA October 29-30, 2007
 63. Technical Program Committee Member, 2nd IEEE International Workshop on Distributed Autonomous Network Management Systems (DANMS), Washington, USA, 26-30 November 2007.
 64. Program Committee Member, IEEE International Conference on Self-Adaptive and Self-Organizing

Systems (SASO 2007), Boston, USA, July 9-11, 2007

65. Technical Program Committee Member, IEEE International Symposium on Integrated Management (IM 2007), Munich, Germany, May 21-25, 2007
66. Technical Program Committee Member, IEEE International Design and Reliable Communication Networks (DCRN 2007) France, Oct. 7-10, 2007, <http://www.drcn2007.org/>
67. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), May 21 2007, Munich, Germany
68. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium (GIIS 2007), Marrakech, Morocco on July 2-5, 2007
69. Technical Program Committee Member, IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems, Boston, Mass., USA, July 9-11, 2007
70. Technical Program Committee Member, 17th IFIP/IEEE International Workshop on Distributed Systems (DSOM 2006), Dublin, Ireland, October 23-25, 2006.
71. Technical Program Committee Member, 8th International Symposium on System and Information Security, Sao Paulo, Brazil, November 08-10, 2006
72. Technical Chair, KICS KNOM (1996. 1 – 2000. 5)
73. Technical Program Committee Member, 1st IEEE Workshop on Autonomic Communication and Network Management (ACNM 2007), Munich, Germany, May 25, 2006
74. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium, Petropolis, Brazil, September 10-12, 2007
75. Technical Chair, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (1998. 6 – 2000. 6)
76. Technical Program Co-Chair, 2000 IEEE/IFIP International Network Operations and Management Symposium (NOMS2000), Hawaii, USA, April 10-14, 2000.
77. Technical Program Co-Chair, 1999 Asia-Pacific Network Operations and Management Symposium (APNOMS'99), Kyongju, Korea, Sept. 15-17, 1999.
78. Technical Program Committee Member, IFIP/IEEE International Workshop on Distributed Systems Operations and Management (DSOM 2005), Barcelona, Spain, Oct. 24-26, 2005.
79. Technical Program Committee Member, The 4th Latin American Network Operations and Management Symposium, Porto Alegre, Brazil, August 29-31, 2005.
80. Technical Program Committee Member, The 3rd Latin American Network Operations and Management Symposium (LANOMS'03), Foz do Iguacu, Parana, Brazil, September 4-6, 2003.
81. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2003), Colorado Springs, USA, March 2003.
82. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS2002), Florence, Italy, April 15-19, 2002.
83. Technical Program Committee Member, The 7th Annual Global Internet Symposium, Taipei, Taiwan, November 17-21, 2002.
84. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2001), Nancy, France, October, 2001.
85. Organizing Committee Member, 2001 Asia-Pacific Network Operations and Management Symposium (APNOMS 2001), Sydney, Australia, September 26-28, 2001.

86. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2001), Seattle, USA, May 2001.
87. Technical Program Committee Member, 2000 IEEE/IFIP International Conference on Management of Multimedia Networks and Services (MMNS 2000), Fortaleza, Brazil, July 26-28, 2000.
88. Technical Program Committee Member, 2000 IEEE Workshop on IP-oriented Operations & Management (IPOM 2000), Cracow, Poland, September 4-6, 2000
89. Organizing Committee Member, 2000 Asia-Pacific Network Operations and Management Symposium (APNOMS 2000), Nara, Japan, September 2000.
90. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2000), Austin, TX, USA, December, 2000.
91. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'99), Boston, USA, May, 1999.
92. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'98), Delaware NJ, USA, Oct. 1998.
93. Organizing Committee Member, 1998 Asia-Pacific Network Operations and Management Symposium (APNOMS'98), Sendai, Japan, Sept. 16-18, 1998.
94. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS'98), New Orleans, USA, Feb., 1998.
95. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'97), San Diego, CA, USA, May 12-16, 1997.
96. International Liaison Chair, 1997 Asia-Pacific Network Operations and Management Symposium (APNOMS'97), Seoul Korea, Oct. 8-10, 1997.
97. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'97), Sydney Australia, Oct. 21-23, 1997.
98. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium, Kyoto, Japan, April 1996.
99. Technical Program Member, 1996 IEEE International Workshop on Systems Management (SMW2), Toronto, Canada, June 1996.
100. 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) (Nov. 2009 – Sep. 2010), 4,150,000,000 Won
2. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and Analysis Research (MKE) (Jan. 2009 - Dec.2009) 75,000,000 Won
3. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MKE) (Dec. 2008 – Oct. 2009), 4,274,000,000 Won
4. Research on Traffic Control of Interconnection area among ISPs (KT) (Jul. 2008 – Nov. 2009) 35,000,000 Won
5. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and

- Analysis Research (MKE) (Mar. 2008 - Dec.2008)
60,000,000 Won
6. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2008 – Dec. 2009)
40,000,000 Won
 7. Fault Detection and Prediction of POSCO Control Networks (POSCO) (Feb. 2007 – Jan. 2008)
200,000,000 Won
 8. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Sept. 2007 – Dec. 2008)
60,000,000 Won
 9. Research on Effective Planning of All-IP Networks (POSCO) (Jan. 2007 – Dec. 2007)
272,840,000 Won
 10. Traffic Analysis of Access Networks for Triple Play Service (KT) (June 2007 – Nov. 2007)
39,000,000 Won
 11. Research on SNMP-based Management of Tactical Networks (Samsung Thales) (Jan. 2007 – Dec. 2007)
50,000,000 Won
 12. Integrated Remote Fault Analysis of POSCO Control Networks (POSCO) (Jun. 2006 – May 2007)
250,000,000 Won
 13. Realization of TSA using Web Services from NGOSS TNA (KT) (Apr. 2006 – Nov. 2006)
50,000,000 Won
 14. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Sept. 2005 – Aug. 2007)
100,000,000 Won
 15. Implementation of Manager for Broadband Power Line Communication Network Management System (KEPCO) (Sept. 2005 – Aug. 2008)
165,000,000 Won
 16. KT Operations Support System Laboratory (September 2005 – December 2005),
Internet Application Traffic Identification
30,000,000 Won
 17. Electronics and Telecommunications Research Institute (ETRI), (May 2005 – Oct. 2005)
A Performance Evaluation Study on WBEM Implementations,
30,000,000 Won
 18. Korea Industrial Technology Foundation (KOTEF), (Dec. 2003 – Aug. 2005)
“Internet Traffic Monitoring, Analysis and Control”
200,000,000 Won
 19. Electronics and Telecommunications Research Institute (ETRI), (May 2004 – Nov. 2004)
“Development of CIM/WBEM-based Systems Management Framework”

- 50,000,000 Won
20. National Security Research Institute (NSRI), (Apr. 2004 – Nov. 2004)
“Analysis of Internet Worm Traffic”
20,000,000 Won
 21. KTF (Oct. 2003 - Apr. 2004),
“Research on KTF New Generation Integrated OSS Architecture”,
45,000,000 Won.
 22. Electronics and Telecommunications Research Institute (ETRI), (Aug. 2003 - Dec. 2003),
“Development of Secure Internet Router for Detecting DDoS Attacks”,
28,500,000 Won.
 23. KT (June 2003 - Dec. 2003),
“Research on Network Security Attack Detection Methods Based on Internet Traffic Monitoring
and Analysis”,
29,400,000 Won.
 24. DACOM (Apr. 2003 - Nov. 2003),
“Development and Deployment of Network Monitoring and Analysis System”,
40,000,000 Won.
 25. PIRL, POSTECH (Dec. 2002 - Nov. 2003),
“Research on High-Speed Network Monitoring and Analysis Methods”,
12,000,000 Won.
 26. HY-SDR Research Center (Aug. 2002 - July 2003),
“Research on Detecting Methods for Internet Security Attacks via Traffic Monitoring”,
20,000,000 Won.
 27. KT (Aug. 2002 – Nov. 2002)
“A Study on Value-Added Services for High-Speed Broadband Internet Service Providers”,
27,000,000 Won.
 28. Ifelnet Inc., (Feb. 2002 – Feb. 2003),
“Research on Efficient IP Network Traffic Monitoring and Analysis Methods”,
30,000,000 Won.
 29. POSCO, (Jan. 2000 - June 2001),
“Development of Internet Server Technology Supporting Differentiated QoS Services”,
342,396,933 Won.
 30. 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.
 31. POSCO, (Jan. 2000 - Dec. 2000),
“Research on LAN Configuration, Traffic Monitoring and Control in High-Speed Switching LANs”,
288,215,499 Won.

32. POSCO, (Jan. 2000 - Dec. 2000),
“Research on Voice, Video and Data Integration for POSCO Network”,
310,667,662 Won.
33. POSCO, (Jan. 1999 - Dec. 1999),
“Research on POSCO Enterprise Network Planning”,
253,463,000 Won.
34. POSCO, (Jan. 1999 - Dec. 1999),
“Development of Lightweight and High-Performance Web Cache Server”,
15,675,000 Won.
35. Korea Telecom, (Jan. 1999 - Dec. 1999),
“TMN-based Integrated Network Management Using Web Technology (II),
63,243,000 Won.
36. POSDATA, (Oct. 1998 - May 1999),
“Development of PC-based Multimedia Applications”,
43,600,000 Won.
37. OpenTech, (May 1998 - Oct. 1998),
“DCE Management Subsystem Development”,
10,234,000 Won.
38. Korea Telecom, (Feb. 1998 - Dec. 1998),
“TMN-based Integrated Network Management Using Web Technology (I)”,
43,600,000 Won.
39. ETRI, (Apr. 1998 - Nov. 1998),
“Research on Service Management Using Distributed Object-Oriented Technology”, 20,000,000
Won.
40. System Engineering Research Institute (SERI), (Nov. 1997 - June 1998),
“Development of UNIX Workstation-based Remote Research Collaboration Platform”,
50,000,000 Won.
41. SERI, (May 1997 - Mar. 1998),
“A Study on Developing QoS MIB for Managing Application Services”,
20,000,000 Won.
42. ETRI, (Mar. 1997 - Nov. 1997),
“A Study on Management of Internet Application Services”,
30,000,000 Won.
43. POSCO, (Oct. 1996 - Aug. 1997),
“Planning for Efficient Utilization of POSCO Computing Resources”,
199,626,000 Won.
44. Samsung Electronics, (Sept. 1996 - Aug. 1998),
“Development of DMI-based Samsung PC Server Management System”,
230,000,000 Won.

45. ETRI, (Apr. 1996 - Nov. 1996),
“A Study on the Standardization of Distributed Systems Software”,
30,000,000 Won.
46. Korea Research Foundation, (Dec. 1995 - Nov. 1997),
“Management of Distributed Multimedia Systems and Applications”,
30,000,000 Won.
47. Pohang University of Science and Technology, (Sept. 1995 - Aug. 1996),
“Management of Distributed Systems and Applications”,
30,000,000 Won.
48. 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://dpnm.postech.ac.kr>)**

7. Refereed Publications

A. International Journal Papers

1. 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)
2. 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)
3. 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)
4. 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)
5. 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)
6. 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)
7. 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
8. 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).
9. 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).
10. 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)
11. 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)

12. 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).
13. 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)
14. 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)
15. Jeong-Hyuk Yoon, Hong-Taek Ju and James W. Hong, "Development of SNMP-XML Translator and Gateway for XML-based Integrated Network Management", International Journal of Network Management, Wiley, Vol. 13, No. 4, July-August 2003, pp. 259-276.
16. Myung-Sup Kim, Mi-Joung Choi and James W. Hong, "A Load Cluster Management System using SNMP and Web", International Journal of Network Management, Wiley, Vol. 12, No. 6, November 2002, pp. 367-378.
17. Mi-Joung Choi and James Won-Ki Hong, "A Secure Web-based Global Management System for Firewall/VPN Devices", Journal of Communications and Networks (JCN), Vol. 4, No. 1, March 2002, pp. 71-78 (SCIE).
18. Jae-Young Kim and James Won-Ki Hong, "Distributed QoS Monitoring and Edge-to-Edge QoS Aggregation to Manage End-to-End Traffic Flows in Differentiated Services Networks", Journal of Communications and Networks (JCN) Special Issue on Management of New Networking Infrastructure and Services, Vol. 3, No. 4, December 2001, pp. 324-333 (SCIE).
19. Jae-Young Kim, James Won-Ki Hong, and Tae-Sang Choi, "Managing Edge-to-Edge Traffic Aggregates in Differentiated Services Networks", Journal of Network and Systems Management, Plenum Press, September 2001, pp.266-291.
20. Hong-Taek Ju, Mi-Joung Choi and James W. Hong, "EWS-based Management Application Interface and Integration Mechanisms for Web-based Element Management", Journal of Network and Systems Management, Plenum Press, March 2001, pp.31-50.
21. J. Won-Ki Hong, S. U. Park, Y. M. Kang and J. T. Park, "Enterprise Network Traffic Monitoring, Analysis and Reporting Using Web Technology", Journal of Network and Systems Management, Plenum Press, March 2001, pp. 89-111.
22. Hong-Taek Ju, Mi-Joung Choi and James W. Hong, "An efficient and lightweight embedded Web server for Web-based network element management," International Journal of Network Management, Wiley, Vol. 10, Issue 5, September/October 2000, pp. 261-275.
23. Myung-Sup Kim and J. Won-Ki Hong, "A CORBA-based Framework for the Management of Multimedia Services", Interoperable Communication Networks, Vol. 2, No. 2-4, January 2000, pp. 189-198.
24. Jae-Young Kim, Hong-Taek Ju, J. Won-Ki Hong, Seong-Beom Kim and Chan-Kyu Hwang, "Towards TMN-based Integrated Network Management Using CORBA and Java Technologies", Special Issue on New Paradigms in Network Management of IEICE Transactions on Communications, Vol. E82-B, No. 11, November, 1999, pp. 1729-1741. (SCI)
25. J. Won-Ki Hong, Soon-Sun Kwon and Jae-Young Kim, "WebTrafMon: Web-based Internet/Intranet

- Network Traffic Monitoring and Analysis System,” Computer Communications, Elsevier Science, Vol. 22, No. 14, September 1999, pp. 1333-1342. (SCIE)
26. J. Won-Ki Hong, Jong-Seo Kim and Jae-Kyu Park, “A CORBA-based Quality-of-Service Management Framework for Distributed Multimedia Services and Applications,” IEEE Network, Vol. 13, No. 2, March/April, 1999, pp. 70-79. (SCI)
 27. J. W. Hong, Y. M. Shin, M. S. Kim, J. Y. Kim and Y. H. Suh, “Design and Implementation of a Distributed Multimedia Collaborative Environment,” Cluster Computing, Baltzer Science, Vol. 2, No. 1, January, 1999, pp. 45-49.
 28. J. T. Park, Su-Ho Ha and J. Won-Ki Hong, "Design and Implementation of TMN SMK System Using CORBA ORB", Journal of Network and Systems Management, Plenum Press, Vol. 6, No. 2, June 1998, pp. 135-156.
 29. J. W. Hong, J. Y. Kong, T. H. Yun, J. S. Kim, J. T. Park and J. W. Baek, "Web-based Intranet Services and Network Management", IEEE Communications Magazine, Vol. 35, No. 10, October 1997, pp. 100-110 (SCI).
 30. J. W. Hong, T. H. Yun, J. Y. Kong, and Y. M. Shin, "A Flexible and Reliable Distributed Multimedia System for Multimedia Information Superhighways", Malaysian Journal of Computer Science, Vol. 10, No. 2, December 1997, pp. 1-16.
 31. J. T. Park, J. H. Lee and J. W. Hong, "Customer Network Management System for Managing ATM Virtual Private Networks", Journal of IEICE Transactions on Communications, Vol. E80-B, No. 6, June 1997, pp. 818-826 (SCI).
 32. M. Bauer, N. Coburn, D. Erickson, P. Finnigan, J. Hong, P. Larson, J. Slonim, D. Taylor, and T. Teorey, "A Distributed System Architecture for a Distributed Application Environment", IBM Systems Journal, Vol. 33, No. 3, September 1994, pp. 399-425.
 33. M. Bauer, P. Finnigan, J. Hong, J. Rolia, T. Teorey, and G. Winters, "Reference Architecture for Distributed Systems Management", IBM Systems Journal, Vol. 33, No. 3, September 1994, pp. 426-444.
 34. J. Slonim, J. Hong, P. Finnigan, D. Erickson, N. Coburn, M. Bauer, “Does middleware provide an adequate distributed application environment?,” IFIP Transaction C: Communication Systems (C-20), pp. 53-65
 35. J. Hong, M. Bauer, J. Bennett, “Integration of the directory service in the network management framework,” IFIP Transactions C: Communication Systems (C-12), pp. 149-160.

B. Books & Book Chapters

1. Mi-Jung Choi and James Won-Ki Hong, "XML-Based Network Management," Handbook of Network and System Administration, Chapter 2.4, Editors: Jan Bergstra and Mark Burgess, ISBN: 978-0-444-52198-9, November 7, 2007, pp.173~196.
2. James W. Hong and Robert Weihmayer, "2000 IEEE/IFIP Network Operations and Management Symposium", IEEE Publishing, Piscataway, NJ, USA, ISBN 0-7803-5928-3, April 2000.
3. J. W. Hong, "A CORBA-based Distributed Multimedia System", Book Chapter, Distributed

Multimedia Systems, Edited by Son Vuong, World Scientific Publisher, ISBN 981-02-3560-7, 1999, pp. 191-218.

C. International Conference Papers

1. Sung-Su Kim, Young J. Won, John Strassner, and James Won-Ki Hong, "Manageability of the Internet: Management with New Functionality", the 12th IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, Apr. 19-23, 2010. (Accepted to appear)
2. Steven Latre, Sven van der Meer, Filip De Turck, John Strassner, and James Won-Ki Hong, "Ontological Generation of Filter Rules for Context Exchange in Autonomic Multimedia Networks", the 12th IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, Apr. 19-23, 2010. (Accepted to appear)
3. Jae Yoon Chung, Byungchul Park, Young J. Won, John Strassner, and James W. Hong, "An Effective Similarity Metric for Application Traffic Classification", the 12th IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, Apr. 19-23, 2010. (Accepted to appear)
4. Jae Yoon Chung, Byungchul Park, Young J. Won, John Strassner, and James W. Hong, "Traffic Classification Based on Flow Similarity", 8th IEEE International Workshop on IP Operations & Management, Venice, Italy, Oct. 29-30, 2009.
5. John Strassner, Sven van der Meer, and James Won-Ki Hong, "The Applicability of Self-Awareness for Network Management Operations", 4th IEEE International Workshop on Modeling Autonomic Communications Environments, Venice, Italy, Oct. 26-27, 2009.
6. Seong-Cheol Hong, Jin Kim, Byungchul Park, Young J. Won, and James W. Hong, "Traffic Growth Analysis over Three Years in Enterprise Networks", 15th Asia-Pacific Conference on Communications, Shanghai, China, Oct. 8-10, 2009.
7. John Strassner, Sven van der Meer, James Won-Ki Hong, "The Design of an Autonomic Communication Element to Manage Future Internet Services", 12th Asia-Pacific Network Operations and Management Symposium, Jeju, Korea, Sept. 23-25, 2009.
8. Suman Pandey, Young J. Won, Hong-Taek, Ju, and James W. Hong, "Dimensioning of IPTV VoD Service in Heterogeneous Broadband Access Networks", 12th Asia-Pacific Network Operations and Management Symposium, Jeju, Korea, Sept. 23-25, 2009.
9. Seong-Cheol Hong, Hong-Taek Ju, and James W. Hong, "IP Prefix Hijacking Detection Using Idle Scan", 12th Asia-Pacific Network Operations and Management Symposium, Jeju, Korea, Sept. 23-25, 2009.
10. John Strassner and James Won-Ki Hong, "Towards the Development of an Autonomic Network Management Architecture", 4th International Conference on Communications and Networking in China (ChinaCOM), Xi'an, China, Aug. 26-28, 2009.
11. John Strassner, James Won-Ki Hong, and Kyo Chul Kang, "A Framework for Modeling and Reasoning about Network Management Resources and Services to Support Information Reuse", IEEE International Conference on Information Reuse and Integration (IRI), Las Vegas, USA, Aug. 10-12, 2009.
12. Byungchul Park, Young J. Won, Hwanjo Yum and James Won-Ki Hong, "Fault Detection in IP-Based Process Control Networks using Data Mining Technique," Accepted to be appeared in 11th

IFIP/IEEE International Symposium on Integrated Network Management (IM 2009), New York, USA, Jun. 2009.

13. Sungsu Kim, Mi-Jung Choi, and James Won-Ki Hong, "Management requirements and operations of Future Internet," 11th Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), LNCS, Beijing, China, October 2008, pp. 156-166.
14. Byung-Chul Park, Young J. Won, Mi-Jung Choi, Myung-Sup Kim, and James Won-Ki Hong, "Empirical Analysis of Application-level Traffic classification using Supervised Machine Learning," 11th Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), LNCS, Beijing, China, October 2008, pp. 474-477.
15. Joon-Myung Kang, Chang-Keun Park, Mi-Jung Choi, and James Won-Ki Hong, "User-Centric Prediction for Battery Lifetime of Mobile Devices," 11th Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), LNCS, Beijing, China, October 2008, pp. 531-534.
16. Byung-Chul Park, Young J. Won, Myung-Sup Kim, and James Won-Ki Hong, "Towards Automated Application Signature Generation for Traffic Identification," Proc. of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2008), Salvador, Brazil, April 2008, pp. 160-167.
17. Young J. Won, Byung-Chul Park, Mi-jung Choi, James W. Hong, Hee-Won Lee, Chan-Kyu Hwang, Jae-Hyoung Yoo, "End-User IPTV Traffic Measurement of Residential Broadband Access Networks," 6th IEEE International Workshop on End-to-End Monitoring Techniques and Services (E2EMON 2008), Salvador, Brazil, April 2008.
18. Chang-Keun Park, Joon-Myung Kang, Mi-Jung Choi, James Won-Ki Hong, Young-Jun Lim, Seong-Ho Ju, "Definition of Common PLC MIB and Design of MIB Mapper for Multi-vendor PLC Network Management," Proc. of IEEE International Symposium on Power Line Communications and its Applications (ISPLC 2008), Jeju Island, Korea, April 2008, pp. 152-157.
19. Chang-Keun Park, Joon-Myung Kang, Mi-Jung Choi, James Won-Ki Hong, Young-Jun Lim, and Munseok Choi, "An Integrated Network Management System for Multi-Vendor Power Line Communication Networks," International Conference on Information Networking 2008 (ICOIN 2008), Busan, Korea, January 23 ~ 25, 2008
20. Young J. Won, Mi-Jung Choi, Jang Jin Lee, Jun Hyub Lee, Hwa Won Hwang, and James Won-Ki Hong, "Detecting Network Faults on Industrial Process Control IP Networks," 7th IEEE International Workshop on IP Operations & Management (IPOM), LNCS 4786, pp. 184-187, San Jose, CA, USA, Oct. 31-Nov. 2, 2007.
21. Joon-Myung Kang, Hong-Taek Ju, Mi-Jung Choi, and James Won-Ki Hong, "OMA DM Based Remote RF Signal Monitoring of Mobile Devices for QoS Improvement," 10th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS 2007), LNCS 4787, San Jose, CA, USA, October 29 ~ November 2, 2007, pp. 76-87.
22. Young J. Won, Mi-Jung Choi, Myung-Sup Kim, Hong-Sun Noh, Jun Hyub Lee, Hwa Won Hwang, and James Won-Ki Hong, "Measurement Analysis of IP-Based Process Control Networks," 10th Asia-Pacific Network Operations and Management Symposium (APNOMS 2007), LNCS 4773, pp. 385-394, Sapporo, Hokkaido, Japan, Oct. 10-12, 2007.
23. Joon-Myung Kang, Hong-Taek Ju, Mi-Jung Choi, and James Won-Ki Hong, "OMA DM Based Remote Software Debugging of Mobile Devices," 10th Asia-Pacific Network Operations and Management Symposium (APNOMS 2007), LNCS 4773, Sapporo, Hokkaido, Japan, October 10 ~ 12, 2007, pp. 51-61.

24. Young J. Won, Byung-Chul Park, Mi-Jung Choi, and James Won-Ki Hong. "Service-based Charging Scheme for Mobile Data Networks," 1st KICS International Conference, Yanbian, China, Aug. 23-25, 2007.
25. M. J. Choi, H.T. Ju, James W. Hong, and D. S. Yun "Design of NGOSS TSA using Web Services Technologies," 10th IEEE/IFIP International Symposium on Integrated Network Management (IM 2007), Munich, Germany, May 21~25, 2007, pp. 868-871.
26. Young J. Won, B.C. Park, S.C. Hong, K.B. Jung, H.T. Ju, James W. Hong, "Measurement Analysis of Mobile Data Networks," Passive and Active Measurement Conference (PAM 2007), Louvain-la-neuve, Belgium, April 5~6, 2007, pp. 223-227.
27. Joon-Myung Kang, Chang-Kun Park, Eun-Hee Kim, James Won-Ki Hong, Yong-hun Lim, Seongho Ju, Moon-suk Choi, Bum-suk Lee, and Duckhwa Hyun, "Design and Implementation of Network Management System for Power Line Communication Network," IEEE International Symposium on Power Line Communications and its Applications (ISPLC 2007), Pisa, Italia, March 26-28, 2007, pp. 23-28.
28. Joon-Myung Kang, Hong-Taek Ju and James Won-Ki Hong, "Towards Autonomic Handover Decision Management in 4G Networks," 9th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS 2006), LNCS 4267, Dublin, Ireland, Oct., 2006, pp. 145-157. (SCIE)
29. Mi-Jung Choi, Hong-Taek Ju, James Won-Ki Hong, and Dong-Sik Yun, "Towards Realization of Web services-based TSA from NGOSS TNA," 6th IEEE International Workshop on IP Operations and Management (IPOM 2006), LNCS 4268, Dublin, Ireland, Oct., 2006, pp. 222-227. (SCIE)
30. Dong-Hee Kwon, Woo-Jae Kim, Young-Joo Suh, and James Won-Ki Hong, "Towards Autonomic Network Management for Mobile IPv4 based Wireless Networks," 6th IEEE International Workshop on IP Operations and Management (IPOM 2006), LNCS 4268, Dublin, Ireland, Oct., 2006, pp. 144-155. (SCIE)
31. Sun-Mi Yoo, Hong-Taek Ju and James Won-Ki Hong, "Performance Improvement Methods for NETCONF-Based Configuration Management ," 9th Asia-Pacific Network Operations and Management Symposium(APNOMS 2006), LNCS 4238, Busan, Korea, Sep., 2006, pp. 242-252. (SCIE)
32. Young J. Won, Byung-Chul Park, Hong-Taek Ju, Myung-Sup Kim, and James W. Hong. "A Hybrid Approach for Accurate Application Traffic Identification," IEEE/IFIP E2EMON, Vancouver, Canada, April 3, pp. 1-8.
33. Myung Sup Kim, Ali Tizghadam, Alberto Leon-Garcia, and James Won-Ki Hong "Virtual Network based Autonomic Network Resource Control and Management System," IEEE Globecom 2005, St. Louis, USA, Nov. 28 - Dec. 02, 2005.
34. Sun-Mi Yoo, Hong-Taek Ju, James Won-Ki Hong, "Web Services Based Configuration Management for IP devices", 8th International Conference on Management of Multimedia Networks and Services (MMNS 2005), LNCS 3754, Barcelona, Spain, Oct., 2005, pp. 254-265 (SCIE).
35. Ramy Farha, Myung Sup Kim, Alberto Leon-Garcia, and James Won-Ki Hong, "Toward Autonomic Service Architecture," 5th IEEE International Workshop on IP Operations and Management (IPOM 2005), LNCS 3751, Barcelona, Spain, Oct., 2005, pp. 58-67 (SCIE).

36. Long-Quan Zhao, Seong-Chul Hong, Hong-Taek Ju and James Won-Ki Hong, "A Real-Time Network Traffic Based Worm Detection System for Enterprise Networks", Proc. of APNOMS 2005 Conference, Okinawa, Japan, Sep 27-30, 2005, pp.446-457.
37. Ramy Farha, Myung Sup Kim, Alberto Leon-Garcia and James Won-Ki Hong, "Autonomic Service Architecture using Virtual Services", Proc. of APNOMS 2005 Conference, Okinawa, Japan, Sep 27-30, 2005, pp.343-354.
38. James Won-Ki Hong and Alberto Leon-Garcia, "Requirements for the Operations and Management of 4G Networks," Proc. of the 19th International Teletraffic Congress (ITC 19), Beijing, China, August, 2005, pp. 981-990.
39. Seung-Hwa Chung, Young J. Won, Deepali Agrawal, Seong-Cheol Hong and James Won-Ki Hong, "Detection and Analysis of Packet Loss on Underutilized Enterprise Network Links", IEEE E2EMON 2005, Nice, France, May 15, 2005, pp. 164-176.
40. W. Liu, R. Boutaba and J. W. Hong, "pMeasure: A Tool for Measuring the Internet", IEEE E2EMON 2004, San Diego, California, USA, October 3, 2004, pp. 16-22
41. Seung-Hwa Chung, Deepali Agrawal, Myung-Sup Kim, James W. Hong, and Kihong Park, "Analysis of Bursty Packet Loss Characteristics on Underutilized Links Using SNMP", IEEE E2EMON 2004, San Diego, California, USA, October 3, 2004, pp. 68-74.
42. Myung-Sup Kim, Young J. Won, Hyung-Jo Lee, James W. Hong, and Raouf Boutaba, "Flow-based Characteristic Analysis of Internet Application Traffic", IEEE E2EMON 2004, San Diego, California, USA, October 3, 2004, pp. 62-67.
43. Myung-Sup Kim, Hun-Jeong Kang, Seong-Cheol Hong, Seung-Hwa Chung, James W. Hong, "A Flow-based Method for Abnormal Network Traffic Detection", Proc. of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2004), Seoul, Korea, April 2004, pp. 599-612.
44. Hyoun-Mi Choi, Mi-Jung Choi, James W. Hong, "Design and Implementation of XML-based Configuration Management System for Distributed Systems", Proc. of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2004), Seoul, Korea, April 2004, pp. 831-844.
45. Myung-Sup Kim, Hun-Jeong Kang and James W. Hong, "Towards Peer-to-Peer Traffic Analysis Using Flows", Lecture Notes in Computer Science 2867, Edited by Marcus Brunner, Alexander Keller, 14th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2003), Heidelberg, Germany, October, 2003, pp. 55-67. (SCIE)
46. Hun-Jeong Kang, Myung-Sup Kim and James Won-Ki Hong, "A Method on Multimedia Service Traffic Monitoring and Analysis", Lecture Notes in Computer Science 2867, Edited by Marcus Brunner, Alexander Keller, 14th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2003), Heidelberg, Germany, October, 2003, pp. 93-105. (SCIE)
47. Mi-Jung Choi, Jung-Min Oh and James W. Hong, "Design and Implementation of an XML-Based Management Agent", Proc. of 2003 Asia-Pacific Network Operations and Management Symposium (APNOMS 2003), Fukuoka, Japan, October 1-3, 2003, pp. 331-342.
48. Hun-Jeong Kang, Seung-Hwa Chung, Seong-Cheol Hong, Myung-Sup Kim and James W. Hong, "Towards Flow-based Abnormal Network Traffic Detection", Proc. of 2003 Asia-Pacific Network Operations and Management Symposium (APNOMS 2003), Fukuoka, Japan, October 1-3, 2003, pp. 369-380.

49. Hyoun-Mi Choi, Mi-Jung Choi James W. Hong, "XML-Based Configuration Management for Distributed System", Proc. of 2003 Asia-Pacific Network Operations and Management Symposium (APNOMS 2003), Fukuoka, Japan, October 1-3, 2003, pp. 599-600
50. Yoon-Jung Oh, Hong-Taek Ju, Mi-Jung Choi and James W. Hong, "Interaction Translation Methods for XML/SNMP Gateway ", Lecture Notes in Computer Science 2506, Edited by M. Feridun, P. Kropf and G. Babin, 13th IEEE/IFIP International Workshop on Distributed Systems: Operations and Management (DSOM 2002), Montreal, Canada, October, 2002, pp. 54-65. (SCIE)
51. Se-Hee Han, Myung-Sup Kim, Hong-Taek Ju and James W. Hong, "The Architecture of NG-MON: A Passive Network Monitoring System", Lecture Notes in Computer Science 2506, Edited by M. Feridun, P. Kropf and G. Babin, 13th IEEE/IFIP International Workshop on Distributed Systems: Operations and Management (DSOM 2002), Montreal, Canada, October, 2002, pp. 16-27. (SCIE)
52. Yoon-Jung Oh, Hong-Taek Ju and James W. Hong, "Interaction Translation Methods for XML/SNMP Gateway Using XML Technologies", Proc. of 2002 Asia-Pacific Network Operations and Management Symposium (APNOMS 2002), Jeju, Korea, September 25-27, 2002, pp. 11-22.
53. Hyo-Jin Lee, Myung-Sup Kim, James W. Hong and Gils-Haeng Lee, "Mapping between QoS Parameters and Network Performance Metrics for SLA monitoring", Proc. of 2002 Asia-Pacific Network Operations and Management Symposium (APNOMS 2002), Jeju, Korea, September 25-27, 2002, pp. 97-108.
54. Se-Hee Han, Hong-Taek Ju, Myung-Sup Kim and James W. Hong, "Design of Next Generation High-Speed IP Network Traffic Monitoring and Analysis System", Proc. of 2002 Asia-Pacific Network Operations and Management Symposium (APNOMS 2002), Jeju, Korea, September 25-27, 2002, pp. 282-293.
55. Hun-Jeong Kang, Hong-Taek Ju, Myung-Sup Kim and James W. Hong, "Towards Streaming Media Traffic Monitoring and Analysis", Proc. of 2002 Asia-Pacific Network Operations and Management Symposium (APNOMS 2002), Jeju, Korea, September 25-27, 2002, pp. 503-504.
56. Mi-Jung Choi, Hong-Taek Ju and James W. Hong, "Towards XML and SNMP Integrated Network Management ", Proc. of 2002 Asia-Pacific Network Operations and Management Symposium (APNOMS 2002), Jeju, Korea, September 25-27, 2002, pp. 507-508.
57. Hong-Taek Ju, Mi-Jung Choi, Sehee Han, Yunjung Oh, Jeong-Hyuk Yoon, Hyojin Lee and James W. Hong, "An Embedded Web Server Architecture for XML-Based Network Management", Proc. of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2002), Florence, Italy, April 2002, pp. 5-18.
58. Myung-Sup Kim, Mi-Jeong Choi and James W. Hong, "Highly Available and Efficient Load Cluster Management System using SNMP and Web", Proc. of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2002), Florence, Italy, April 2002, pp. 619-632.
59. Sook-Hyun Ryu, Jae-Young Kim, and James W. Hong, "Approaches to Support Differentiated Quality of Web Service," QofIS 2001, LNCS 2156, September 2001, pp. 273-285.
60. Soon-Hwa Hong, Jae-Young Kim, Bum-Rae Cho, James W Hong, "Distributed Network Traffic Monitoring and Analysis using Load Balancing Technology", 2001 Asia-Pacific Network Operations and Management Symposium, Sydney, Australia, September 2001, pp.172-183.
61. Myung-Sup Kim, J Won-Ki Hong, "SNMP & Web-based Load Cluster Management System" 2001 Asia-Pacific Network Operations and Management Symposium, Sydney, Australia, September 2001,

pp. 268-279.

62. Sook-Hyun Ryu, Jae-Young Kim and James Won-Ki Hong, "Towards Supporting Differentiated Quality of Web Service", Proc. of the 3rd International Conference on Advanced Communication Technology (ICACT 2001), Muju Korea, February 2001, pp. 20-25.
63. Hong-Taek Ju, James Won-Ki Hong, "Towards Ubiquitous EWS-based Network Management", 2000 Asia-Pacific Network Operations and Management Symposium, Nara, JAPAN, October 11-13, 2000, pp. 224-255
64. Mi-Joung Choi, Hong-Taek Ju, Hyun-Jun Cha, Sook-Hyang Kim and J. Won-Ki Hong, "An Efficient and Lightweight Embedded Web Server for Web-based Network Element Management", IEEE/IFIP Network Operations and Management Symposium (NOMS 2000), Hawaii, April 2000, pp.187-200.
65. Hong-Taek Ju, Mi-Joung Choi, Hyun-Jun Cha, Sook-Hyang Kim and J. Won-Ki Hong, "Effective Management Application Interface and Integration Mechanisms for Web-based Network Element Management", IEEE/IFIP Network Operations and Management Symposium (NOMS 2000), Hawaii, April 2000, pp. 947-948.
66. Jae-Young Kim, Won-Ki Hong, Sook-Hyun Ryu and Tae-Sang Choi, "Constructing End-to-End Traffic Flows for Managing Differentiated Services Networks", Lecture Notes in Computer Science 1960, Edited by A. Ambler, S. Calo and G. Kar, 11th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2000), Austin, TX, USA, December 2000, pp. 83-94. (SCIE)
67. Sook-Hyang Kim, Jae-Young Kim and Won-Ki Hong, "A Statistical, Batch, Proxy-Side Web Prefetching Scheme for Efficient Internet Bandwidth Usage," Proc. of the 2000 Network + Interop Engineers Conference, Las Vegas, May, 2000.
68. Jae-Young Kim, Myung-Sup Kim and Won-Ki Hong, "Management of Differentiated Services Using the SNMP Framework," Proc. of the 2nd International Conference on Advanced Communication Technology (ICACT 2000), Muju Korea, February 16-18, 2000, pp.624-629.
69. Sook-Hyang Kim, Jae-Young Kim and Won-Ki Hong, "A Statistical, Batch, Proxy-Side Web Prefetching scheme for Efficient Internet Bandwidth Usage," Proc. of the 2nd International Conference on Advanced Communication Technology (ICACT 2000), Muju Korea, February 16-18, 2000, pp.137-141.
70. Hong-Taek Ju, Mi-Joung Choi, Sook-Hyang Kim, Hyun-Jun Cha and J. Won-Ki Hong, "Embedded Web Server Technology for Web-based Network Element Management," Asia-Pacific Network Operations and Management Symposium (APNOMS'99), Kyongju, Korea, Sept. 1999, pp. 317-332.
71. Tae-Sun Hwang, J. Won-Ki Hong, "A Fault-tolerant, Scalable Intrusion Detection and Tracking System for Enterprise Network," Asia-Pacific Network Operations and Management Symposium (APNOMS'99), Kyongju, Korea, Sept. 1999, pp. 531-542.
72. S. K. Ahn, M. J. Choi, J. Y. Kim, J. W. Hong, S. K. Kim, "TMN-based Intelligent Network Management: Local Number Portability", Integrated Network Management VI, Edited by M. Sloman, S. Mazumdar and E. Lupu, IEEE Publishing, May 1999, pp 83-96.
73. J. Y. Kim, J. W. Hong, "Design and Implementation of a Web-based Internet/Intranet Mail Server Management System", Proc. of the IEEE International Conference on Communications, Vancouver, Canada, June 1999, pp 641-645.

74. Jae-Young Kim, Seung-Duck Lim, and James W. Hong, "TMN-Based Integrated Network Management Using Web and CORBA", Proc. of the Sixth IEEE/IFIP International Symposium on Integrated Network Management (IM'99), Boston, MA, USA, May 1999, pp. 947-948.
75. J. Y. Kim, S. D. Lim, J. W. Hong, "TMN-based Network Management Using Web and CORBA", Proc. of the 1st International Conference on Advanced Communication Technology, Muju, Korea, February 1999, pp 326-331.
76. H. T. Ju, M. J. Choi, J. W. Hong, "Design of a Web-based FLC-C Manager System", Proc. of the 1st International Conference on Advanced Communication Technology, Muju, Korea, February 1999, pp 320-325.
77. S. S. Kwon, J. Y. Kim, J. W. Hong, "Web-based Internet/Intranet Network Traffic Monitoring and Analysis", Proc. of the 1st International Conference on Advanced Communication Technology, Muju, Korea, February 1999, pp 49-54.
78. Kyo C. Kang, J. Won-Ki Hong, Hyun S. Choi and Jae H. Park, "MEDUSA: A New Web-based Educational Environment Constructed by Formalized Meta Information", Proc. of the First AEARU Workshop on Web Technology, Kyoto, Japan, November 1998, pp. 52-59.
79. J. W. Hong, J. S. Kim and J. T. Park, "A CORBA-based Quality-of-Service Management Framework for Distributed Multimedia Services and Applications", Proc. of IEEE/IFIP International Workshop on Distributed Systems: Operations and Management (DSOM'98), Newark, Delaware, USA, October, 1998, pp. 105-116.
80. S. U. Park, Y. M. Kang, J. W. Hong, J. T. Park, "Web-Based Enterprise Network Traffic Monitoring and Reporting", IEEE Enterprise Networking Conference (ENCOM-98), Atlanta, GA, June 1998, pp. 45-55.
81. E. J. Ha, J. T. Park, J. W. Hong, "Design and Implementation of Web-based Internet/Intranet Application Service Management System", IEEE Enterprise Networking Conference (ENCOM-98), Atlanta, GA, June 1998, pp. 120-129.
82. J. W. Baek, T. J. Ha, J. T. Park, J. W. Hong and S. B. Kim, "ATM Customer Network Management Using WWW and CORBA Technologies", Proc. of the IEEE/IFIP 1998 Network Operations and Management Symposium, New Orleans, Louisiana, February 1998, pp. 120-129.
83. J. Y. Kong, J. W. Hong, J. T. Park and D. J. Kim, "A CORBA-Based Management Framework for Distributed Multimedia Services and Applications", Proc. of the IEEE/IFIP Distributed Systems: Operations and Management, Sydney, Australia, October 1997, pp. 132-144.
84. T. H. Yun, J. Y. Kong and J. W. Hong, "A CORBA-Based Distributed Multimedia System", Proc. of the Fourth Pacific Workshop on Distributed Multimedia Systems, Vancouver, Canada, July 1997, pp. 1-8.
85. J. Y. Kong, T. H. Yun, S. W. Park, S. H. Kim, Y. M. Shin and J. W. Hong, "Design and Implementation of a Management System for CORBA-Based Distributed Systems", Proc. of the Asian-Pacific Network Operations and Management Symposium, Seoul, Korea, October 1997, pp. 473-485.
86. J. T. Park, K. C. Sohn and J. W. Hong, "Web-based Customer Network Management", Proc. of the First IEEE Enterprise Networking Mini-conference (ENM-97), Montreal, Canada, June 1997, pp. 160-169.

87. J. Y. Kim, J. W. Hong and K. C. Kang, "HEMOS: Campus Computing Environment Based on AFS", Proc. of DECORUM'97, Long Beach CA, March 1997.
88. T. H. Yun, J. Y. Kong and J. W. Hong, "Object-Oriented Modeling of Distributed Multimedia Systems", Proc. of the IEEE International Conference on Communications (ICC'97), Montreal, Canada, June 1997, pp. 777-781.
89. J. T. Park, J. H. Lee, J. W. Hong, Y. M. Kim and S. B. Kim, "A VPN Management Architecture for Supporting CNM Services in ATM Networks", Proc. of the Fifth International Symposium on Integrated Network Management, San Diego CA, May 1997, pp. 44-57.
90. J. W. Hong and J. T. Park, "Implementation and Performance of a TMN SMK System", Proc. of the IEEE/IFIP 1996 Distributed Systems: Operations and Management, L'Aquila Italy, October 1996, pp. 64-74.
91. J. Won-Ki Hong and Jong-Tae Park, "Supporting Distributed Management in a Telecommunications Management Network (TMN) Environment", Proc. of the Second IEEE Workshop on Systems Management, Toronto Canada, June 1996, pp. 148-157.
92. T. K. Park, Cheeha Kim and J. Won-Ki Hong, "Design of Run-Time Configuration Manager for a Multimedia Network Environment", Proc. of the Second IEEE Workshop on Systems Management, Toronto Canada, June 1996, pp. 9-14.
93. Won-Ki Hong and Jong-Tae Park, "Distributed Management Support for Telecommunication Management Networks", Proc. of the 1996 IEEE Korea International Symposium on Network Operations and Management, Seoul Korea, April 1996, pp. 79-87.
94. Jong-Tae Park and J. Won-Ki Hong, "Design and Implementation of a CORBA-Based TMN SMK System", Proc. of the IEEE/IFIP 1996 Network Operations and Management Symposium, Kyoto Japan, April 1996, pp. 64-74.
95. J. W. Hong, G. Gee and M. A. Bauer, "Towards Automating Instrumentation of Systems and Applications for Management", Proc. of the IEEE Global Telecommunications Conference, November, 1995, Singapore, pp. 107-111.
96. M. J. Katchabaw, J. W. Hong and M. A. Bauer, "Behavioural Specification and Notification Enhancements to GDMO", Proc. of the Sixth IEEE/IFIP International Workshop on Distributed Systems: Operations & Management, Ottawa Canada, October 1995.
97. M. J. Katchabaw, M. M. Khurana, J. W. Hong and M. A. Bauer, "Interworking of ODP Traders on Distributed Computing Environment", Proc. of the 1995 CAS Conference, Toronto, Canada, November 1995, pp. 1-12.
98. M. A. Bauer, H. Lutfiyya and J. W. Hong, "MANDAS: Management of Distributed Applications and Systems", Proc. of the IEEE Future Trend in Distributed Computing Systems, August, 1995, Cheju, Korea.
99. J. W. Hong, G. Gee and M. A. Bauer, "Developing Manageable Distributed Systems and Applications", Proc. of the International Workshop on Network and Systems Management, Kyongju, Korea, August 1995, pp. 133-142.
100. J. W. Hong, M. J. Katchabaw, M. A. Bauer and H. Lutfiyya, "Modeling and Management of Distributed Applications and Services Using the OSI Management Framework", Proc. of the International Conference on Computer Communication, Seoul, Korea, August 1995, pp. 215-220.

101. G. S. Perrow, J. W. Hong, H. Lutfiyya and M. A. Bauer, "The Abstraction and Modelling of Management Agents", Proc. of the Fourth International Symposium on Integrated Network Management, Santa Barbara CA, May 1995, pp. 466-478.
102. A. W. Pratten, J. W. Hong, M. A. Bauer, J. M. Bennett and H. Lutfiyya, "A Resource Management System Based on the ODP Trader Concepts and X.500", Proc. of the Fourth International Symposium on Integrated Network Management, Santa Barbara CA, May 1995, pp. 118-130.
103. A. W. Pratten, J. W. Hong, J. M. Bennett, M. A. Bauer and H. Lutfiyya, "A Trader-Based Resource Management System", Proc. of the Fifth IEEE/IFIP International Workshop on Distributed Systems: Operations & Management, Toulouse France, October 1994.
104. J. W. Hong and M. A. Bauer, "Information Repository for Supporting Distributed Information Management Systems", Proc. of Seventh International Conference on the Parallel and Distributed Computing Systems, Las Vegas, Nevada, October 1994, pp. 411-416.
105. A. W. Pratten, J. W. Hong, J. M. Bennett, M. A. Bauer and H. Lutfiyya, "Design and Implementation of a Trader-Based Resource Management System", Proc. of the 1994 CAS Conference, Toronto, Canada, October 1994, pp. 130-141.
106. H. Lutfiyya, M. A. Bauer, M. Wei and J. W. Hong, "Monitoring in Distributed Application Management", Proc. of the Sixth IASTED - ISMM International Conference on Parallel and Distributed Computing Systems, Washington, DC, October 1994, pp. 17-21.
107. D. L. Silver, J. W. Hong and M. A. Bauer, "X.500 Directory Schema Management", Proc. of the Tenth International Conference on Data Engineering, Houston, Texas, February 1994, pp. 393-400.
108. J. W. Hong, M. A. Bauer and A. D. Marshall, "Distributed Information Repository for Supporting Integrated Network Management", Network Management and Control, Vol 2, I. T. Frisch, M. Malek and S. S. Panwar (editors), Plenum Press, New York, 1994, pp. 233-246.
109. J. W. Hong and M. A. Bauer, "Design and Implementation of a Generic Distributed Application Management System", Proc. of GLOBECOM '93, Houston, Texas, November 1993, pp. 207-211.
110. J. W. Hong and M. A. Bauer, "Management of the X.500 Directory Service", Proc. of the IEEE/IFIP International Workshop on Distributed Systems: Operations and Management, Long Branch, NJ, October 1993.
111. J. W. Hong and M. A. Bauer, "A Generic Management Framework for Distributed Applications", Proc. of the IEEE First International Workshop on Systems Management, Los Angeles, CA, 1993, pp. 63-71.
112. J. W. Hong, M. A. Bauer and J. M. Bennett, "Integration of the Directory Service in the Network Management Framework", Proc. of the Third International Symposium on Integrated Network Management, San Francisco CA, April 1993, pp. 149-160.
113. J. W. Hong, M. A. Bauer and H. M. Abdu, "A Framework for Developing Manageable Distributed Applications", Proc. of the Korea Telecom International Symposium, Seoul, Korea, November 1993, pp. 148-157.
114. M. A. Bauer, N. Coburn, D. L. Erickson, P. J. Finnigan, J. W. Hong, P. A. Larson and J. Slonim, "An Integrated Architecture for Distributed Applications", Proc. of the 1993 CAS Conference, Toronto, Canada, October 1993, pp. 8-26.

- 115.M. A. Bauer, P. J. Finnigan, J. W. Hong, J. Pachl and T. J. Teorey, "An Integrated Distributed Systems Management Architecture", Proc. of the 1993 CAS Conference, Toronto, Canada, October 1993, pp. 27-40.
- 116.J. W. Hong, M. A. Bauer and A. D. Marshall, "Towards Integrated Distributed Systems Management", Proc. of the International Symposium on Applied Computing, Monterrey, Mexico, October 1993, pp. 37-44.
- 117.M. A. Bauer, N. Coburn, D. L. Erickson, P. J. Finnigan, J. W. Hong, and J. Slonim, "Issues in Distributed Architectures: A Comparison of Two Paradigms", Proc. of the International Conference on Open Distributed Processing, Berlin, Germany, September 1993, pp. 411-417.
- 118.J. Slonim, J. W. Hong, P. J. Finnigan, D. L. Erickson, N. Coburn and M. A. Bauer, "Does Middleware Provide an Adequate Distributed Application Environment", Proc. of the International Conference on Open Distributed Processing, Berlin, Germany, September 1993, pp. 34-46.
- 119.J. W. Hong, "Managing Distributed Applications Using Directory Services", Proc. of the 3rd International Conference for Young Computer Scientists, Beijing, China, July 1993, pp. 7.59-7.62.
- 120.J. W. Hong, M. A. Bauer and A. D. Marshall, "X.500: More Than a Global Directory", Proc. of the Canadian Association for Information Science 21st Annual Conference, Antigonish, Nova Scotia, Canada, July 1993, pp. 82-92.
- 121.J. W. Hong, M. A. Bauer and J. A. O'Neill, "Design and Implementation of a Distributed Applications Testbed", Proc. of the 1993 International Conference on Computing and Information, Sudbury, Canada, May 1993, pp. 170-174.
- 122.J. W. Hong, M. A. Bauer and J. M. Bennett, "Integration of the Directory Service in Distributed Systems Management", Proc of the 1992 International Conference on Parallel and Distributed Systems, Hsinchu, Taiwan, Republic of China, December 1992, pp. 142-149.
- 123.J. W. Hong, M. A. Bauer and J. M. Bennett, "The Role of Directory Services in Network Management", Proc. of the 1992 CAS Conference, Toronto, Canada, November 1992, pp. 175-187.
- 124.Brian E. Gratto, J. W. Hong and James P. Black, "The Aggregate Agent Concept: A Paradigm for Hierarchical Network Management," First International Conference on Computer Communications and Networks, San Diego CA, June 1992, pp. 148-152.
- 125.James W. Hong and James P. Black, "Design and Implementation of A Generic Paradigm for Efficient Distributed Communication", Silicon Valley Networking Conference 92, Santa Clara CA, April 1992, pp. 245-255.

D. International Patents

1. 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," 07020430.0-1249, October 18, 2007, EPO patent
2. 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," 2007-271645, October 18, 2007, Japan patent.

3. 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," 11/907,547, October 15, 2007, USA patent.

8. Invited Talks and Tutorials

1. 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.
2. James Won-Ki Hong, "PLC Network Management Technology," Invited Talk, KERI (Korea Electrotechnology Research Institute), Euwangsi, Korea, March 16, 2007.
3. 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.
4. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Globecom, Dallas, USA, Dec 3, 2004.
5. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Conference on Communications (ICC), Paris, France, June 20, 2004.
6. 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.
7. 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.
8. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Invited Keynote Talk, ICACT 2004, Pheonix Park, Korea, Feb. 9, 2004.
9. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2003 IEEE Globecom, San Francisco, USA, Dec. 5, 2003.
10. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, HP Labs, Palo Alto, CA, USA, Dec. 4, 2003.
11. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, Sprint Labs, Burlingame, CA, USA, Dec. 2, 2003.
12. 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.
13. J. Won-Ki Hong, "Traffic Measurement for High-Speed Internet", 2003 ICAT Workshop, Seoul,

14. Korea, April 30, 2003. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Changwon University, Changwon, Korea, May 2, 2003.
15. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Samsung Electronics, Suwon, Korea, May 13, 2003.
16. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", KT OSS Labs, Daejeon, Korea, July 4, 2003.
17. J. W. Hong, "Network Monitoring and Analysis for SLA Management", 2002 KNOM Tutorial, June 21, 2002.
18. 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.
19. J. W. Hong, "IP Network Traffic Monitoring and Analysis", KT Operations Support Systems (OSS) Lab. Seminar, April 16, 2002.
20. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APCC 2000, Oct. 30, 2000, Seoul, Korea.
21. 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.
22. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", Lucent Bell Labs, Holmdel, New Jersey, USA, January 7, 2000.
23. 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.
24. 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.
25. J. W. Hong, "Policy-based Network Management", NETSECKR 2000, Seoul Korea, May 2000.
26. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE/IFIP 1999 International Symposium on Integrated Network Management, Boston MA, May 1999.
27. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE International Conference on Communications, June, 1999, Vancouver, Canada.
28. J. W. Hong, "Computer Networking, Internet & Home Networking", Seminar, LG Electronics, Seoul, Korea, October 23, 1999.
29. J. W. Hong, "Internet/Intranet Network Monitoring, Analysis and Reporting using Web Technology",

KEPRI, Taejeon, Korea, March 13, 1998.

30. J. W. Hong, "Web-based Enterprise Network Management", Korea Telecom, Taejeon, Korea, April 8, 1998.
31. J. W. Hong, "Web-based Network and Systems Management" Tutorial, APNOMS'98, Sendai Japan, Sept. 1998.
32. J. W. Hong, "Web-based Network Management" Daewoo Telecom, Seoul, December 2, 1998.
33. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APNOMS'97, Seoul, Korea, October 8, 1997.

9. Student Supervisions

A. PhD Thesis

1. 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.
2. 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.
3. 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.
4. 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.
5. 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. 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.
 3. 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.
 4. 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.
 5. 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.
 6. 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.
 7. 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.
 8. 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.
 9. 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.
 10. Hyung-Jo Lee, MS Thesis,
“IP Traffic based Accounting for Internet Services,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
 11. Sojung Lee, MS Thesis,
“Design and Implementation of WBEM/SNMP Gateway,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
 12. 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.
 13. 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.

14. Hyun-Mi Choi, MS Thesis,
"XML-based Configuration Management for IP Network Devices", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2003.
15. Yoon-Jung Oh, MS Thesis,
"Interaction Translation Methods for XML/SNMP Gateway", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2002.
16. Hun-Jeong Kang, MS Thesis,
"Multimedia Service Traffic Monitoring and Analysis Methods", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2002.
17. Se-Hee Han, MS Thesis,
"Design and Implementation of NG-MON Throughput Analyzer for Large Volume Network Traffic with Real-Time On-Line Analysis", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2002.
18. Hyo-Jin Lee, MS Thesis,
"QoS Parameters to Network Performance Metrics Mapping for SLA Monitoring", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2002.
19. In Hur, MS Thesis,
"Design and Implementation of a Web-based Manager System for Process Control Windows NT/2000 Servers in POSCO", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2001.
20. Jung-Hyuk Yoon, MS Thesis,
"Design and Implementation of SNMP Gateway for XML-based Network Management", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2001.
21. Bum-Rae Cho, MS Thesis,
"Test Data Generation for Evaluating Intrusion Detection System based on Functionality and Quality", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2001.
22. Soon-Hwa Hong, MS Thesis,
"Network Traffic Monitoring and Analysis using Load Distribution Methodology", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2001.
23. Soo-Hyun Ryu, MS Thesis,
"Approaches to Support Differentiated Quality of Web Service", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2000.
24. Hyun-Jun Cha, MS Thesis,
"Design and Implementation of Embedded Linux System for Networking Devices", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2000.
25. Jae-Hyun Ham, MS Thesis,

- " A Method for Measuring the User-Perceived Performance of Web Service ",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 2000.
26. Sang-Tae Ha, MS Thesis,
"Design and Implementation of High-Speed Internet Gateway",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 2000.
27. Jung-Seok Ha, MS Thesis,
"Design and Implementation of SNMP Agent Simulator",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 2000.
28. Myung-Sup Kim, MS Thesis,
"Adaptive Application-Level QoS Management Techniques for Multimedia Traffic",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1999.
29. Mi-Jeong Choi, MS Thesis,
"Design and Implementation of a Lightweight and Efficient Embedded Web Server for Web-based
Network Element Management",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1999.
30. Sook-Hyang Kim, MS Thesis,
"A Statistical, Batch and Proxy-Initiated Web Prefetching Scheme for Efficient Internet Bandwidth
Usage",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1999.
31. Tae-Sun Hwang, MS Thesis,
"A High-Available and Scalable Intrusion Detection and Tracking System for Enterprise Networks",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1999.
32. Yun-Kyu Park, MS Thesis,
"Automatic Configuration and Reconfiguration of a Web-based Network Traffic Monitoring
System",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1999.
33. Young-Mi Shin, MS Thesis,
"A CORBA-based Secure Session Service for Distributed Multimedia Collaborative Environments",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1998.
34. Sook-Kyong An, MS Thesis,
"Design and Implementation of a TMN-based Centralized Intelligent
Network Number Portability Service Management System Using CORBA",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1998.

35. Seung-Duk Lim, MS Thesis,
"Design and Implementation of a TMN-based Alarm Surveillance System Using CORBA",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1998.
36. Soon-Sun Kwon, MS Thesis,
"WebTrafMon: Web-based Internet/Intranet Network Traffic Monitoring and Analysis System",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1998.
37. Yun-Soo Park, MS Thesis,
"A Component Access Control Method in a Bridge-based Integrated DCOM and CORBA
Environment",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1998.
38. Young-Min Kang, MS Thesis,
"An Implementation Methodology of a Gateway for Inter-Domain Management Between CORBA
and SNMP"
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1998.
39. Ji-Young Kong, MS Thesis,
"A Management Framework for CORBA-based Distributed Services and Applications",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1997.
40. Tae-Hyung Yun, MS Thesis,
"Communication Service for Distributed Multimedia Applications",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1997.
41. Sung-Pil Son, MS Thesis,
"Design and Implementation of a Generic Management Information
Repository Service for Network and System Management",
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,
Completed, December 1997.
42. Sung-Uk Park, MS Thesis,
"Web-based Enterprise Network Traffic Monitoring and Analysis",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1997.
43. Jong-Seo Kim, MS Thesis,
"Design and Implementation of a PC Server Management System Using DMTF DMI 2.0",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1997.
44. Yong-Jin Park, MS Thesis,
"A Migration Methodology for 2-tier to 3-tier Architected Client/Server Systems",
Graduate School for Information Technology, POSTECH, Pohang, Korea,

- Completed, December 1997.
45. Won-Dae Lee, MS Thesis,
"Approximate Matching Algorithms for ODP Trader",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1997.
 46. Jae-Seung Lee, MS Thesis,
"CORBA-Based Object Trader Service in the World-Wide Web",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1996.
 47. Yong-Hoi Joo, MS Thesis,
"An ODP-Based Type Manager for Trading Services",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1996.
 48. Chang-Hwi Kim, MS Thesis,
"Enterprise Information Repository Service System Using X.500 and WWW",
Graduate School for Information Technology, POSTECH, Pohang, Korea,
Completed, December 1996.
 49. Graeme Perrow, MS Thesis,
"The Design of a Generic Management Agent",
University of Western Ontario, London, Canada, Co-supervision with
Dr. M. A. Bauer, Completed, September 1994.
 50. Warren Pratten, MS Thesis,
"Design and Implementation of Resource Manager Using the ODP Trader",
University of Western Ontario, London, Canada,
Co-supervision with Dr. J. M. Bennett, Completed, September 1994.
 51. Hasina M. Abdu, MS Thesis,
"Managing Distributed Applications",
University of Western Ontario, London, Canada,
Co-supervision with Dr. M. A. Bauer, Completed, October 1993.
 52. Danny L. Silver, MS Thesis,
"Management and Propagation of the X.500 Schema",
University of Western Ontario, London, Canada,
Co-supervision with Dr. M. A. Bauer, Completed, September 1993.