

# Curriculum Vitae

## 1. Personal Information

Name: **James Won-Ki Hong**

Citizenship: Canadian & Korean

Date of Birth: September 28, 1959

Current Employment:

Professor, Dept. of Computer Science and Engineering  
Pohang University of Science and Technology (POSTECH)  
77 Cheongamro, Namgu, Pohang, Korea 790-784

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

LinkedIn: <https://www.linkedin.com/in/james-won-ki-hong-0469927/>

Wiki: [https://en.wikipedia.org/wiki/James\\_Won-Ki\\_Hong](https://en.wikipedia.org/wiki/James_Won-Ki_Hong)



## 2. Education

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

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

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

## 3. Professional Experience

2020. 2 – present: Director, Center for Crypto Blockchain Research (CCBR), POSTECH

2025.11 – present: Chair Professor, aSSIST, Seoul, Korea

2025. 3 – present: Professor Emeritus & Research Professor, Dept. of Computer Science and Engineering, POSTECH

2021. 8 – 2025.6: Co-Founder & Technical Advisor, Kedutech, Korea

2019.11 – 2023.8: Director, Innovation Center for Education, POSTECH

2012.3 – 2014.2: Chief Technology Officer & Senior Executive Vice President, Korea Telecom (KT)

2008. 12 – 2012.2: Head and Professor, Division of IT Convergence Engineering, POSTECH

2007. 3 – 2011.2 & 2014. 5 – 2019.10: Dean, Graduate School of 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 – 2025.2: 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., USA

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

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 – present: Director, Distributed Processing and Network Management Lab. 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

Blockchain & Cryptocurrency, Stablecoins, AI-based SDN/NFV Management, Medical AI, Generative AI for Network Management, LLM-based Applications, Network Intelligence, Internet of Things (IoT), Internet Traffic Monitoring & Analysis, Network Security, Cloud Computing. Online Education, Personalized Learning, Educational Technology

#### 5. Professional Activities

1. **General Co-Chair**, 2025 IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2025) Pisa, Italy (2025. 6. 2-6)
2. **General Chair**, IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, Korea (2024. 5. 6-10)
3. **Steering Committee Chair**, IEEE International Conference on Blockchain and Cryptocurrency (2019. 5 - present)
4. **General Chair**, 2019 IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2019) Seoul, Korea (2019. 5. 15-17)
5. **General Chair**, IEEE Blockchain Summit Korea, Seoul, Korea (2018. 6. 7-8)
6. **Executive Director**, SDN//NFV Forum, Korea (2014.10 – 2019.4)
7. **Chair**, Research Division, Software Education Innovation Forum (2014.2 - 2014.12)
8. **Chairman** of National Intelligence Communication Enterprise Association of Korea (2013.1-2014.2)
9. **Chairman** of ICT Standardization Committee, Telecommunications Technology Association of Korea (2012.3 – 2014.2)
10. **Member of International Advisory Committee**, National Institute of Information and Communications Technology (NICT), Japan, (2012.6 – 2019.12)
11. **Editor-in-Chief**, International Journal of Network Management, Wiley & Sons (2012. 1-present)
12. **Editor-in-Chief**, IEEE ComSoc Technology News, IEEE (2012. 1-2013.12)
13. **Director of Online Content**, IEEE Communications Society Board of Governors (2010.1 – 2011.12)

14. **Chair**, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (2005. 6 – 2009.5)
15. **Member**, IEEE NOMS/IM Steering Committee (2003. 7 – present)
16. **Advisory Committee Member**, Asia-Pacific Network Operations and Management Symposium (APNOMS) (2011 – present).
17. **Steering Committee Member**, Asia-Pacific Network Operations and Management Symposium APNOMS) (1997 – 2010).
18. **Conference Operations Chair**, IEEE Global Communications Conference (Globecom 2019), 9-13 December 2019 // Waikoloa, HI, USA
19. **Member** of IEEE Future Directions Committee (FDC) Industry Advisory Board (IAB) (2013-2018)
20. **Member** of IEEE Blockchain Initiative (BCI) Steering Committee (2018. 1 – 2018.12)
21. **Member** of IEEE ComSoc Strategic Planning Committee (SPC) (2014.1 – 2016.12)
22. **Member** of IEEE ComSoc Emerging Technology Committee (ETC) (2014.1 – 2016.12))
23. **Member** of Private Enterprise Advisory Committee of Global Green Growth Initiative in Korea (2012. 6 – 2012.12)
24. **Editorial Board Member**, IEEE Transactions on Network and Service Management (2004-present)
25. **Editorial Advisory Board Member**, Journal of Network and Systems Management, Springer (2005-present)
26. **Advisory Board Member**, Wiley-IEEE Press Book Series on Network and Service Management (2018.2 – present)
27. **Associate Editor-in-Chief**, International Journal of Network Management, Wiley & Sons (2008. 2-2011.12)
28. **Editorial Board Member**, International Journal of Network Management, Wiley & Sons (1999.6–2008.2)
29. **Editorial Board Member**, Journal of Communications and Networks, KICS (Jan 2004 - present)
30. **Editorial Board Member**, Autonomic Systems Book Series, Birkhauser (Sept. 2009 - present)
31. **Guest Editor**, Journal of Communications and Networks, Special Issue on "Management Issues in the Future Internet," (Dec. Issue, 2011)
32. **Guest Editor**, Annals of Telecommunications Journal, Special Issue on "Next Generation Network and Service Management," (2007)
33. **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)
34. **IF&E Committee Chair**, IEEE International Conference on Communications (ICC 2022), Seoul, Korea, May 16-20, 2022.
35. **DEP Chair**, IEEE International Conference on Cloud Networking, Tokyo, Japan, Oct 22-24, 2018
36. **General Co-Chair**, 2018 IEEE Network Operations and Management Symposium (NOMS 2018), Taipei, Taiwan, April 23-27, 2018.
37. **General Chair**, 2016 IEEE International Conference on Network Softwarization (NetSoft 2016), Seoul, Korea, June 06-10, 2016.
38. **General Co-Chair**, 2012 International Symposium on IT Convergence Engineering (ISITCE 2012), Seoul, Korea, July 12-13, 2012.
39. **General Co-Chair**, 2011 Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sept. 21-23, 2011.

40. **General Co-Chair**, 2011 International Symposium on IT Convergence Engineering (ISITCE 2011), Pohang, Korea, July 14-15, 2011.
41. **General Co-Chair**, 2010 International Symposium on IT Convergence Engineering (ISITCE 2010), Pohang, Korea, Aug. 19-20, 2010.
42. **General Co-Chair**, 2010 IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), Osaka, Japan, April 19-23, 2010.
43. **Steering Committee**, The 8th IEEE International Workshop on the Management of Future Internet (ManFI 2016), Istanbul, Turkey, April 25, 2016.
44. **Steering Committee**, The 7th IEEE International Workshop on the Management of Future Internet (ManFI 2015), Ottawa, Canada, May 11, 2015.
45. **Steering Committee**, The 6th IEEE International Workshop on the Management of Future Internet (ManFI 2014), Krakow, Poland, May 5, 2014.
46. **Steering Committee**, The 5th IEEE International Workshop on the Management of Future Internet (ManFI 2013), Ghent, Belgium, May 27, 2013.
47. **Workshop Co-Chair**, The 4th IEEE International Workshop on the Management of Future Internet (ManFI 2012), Maui, Hawaii, USA, April 16, 2012
48. **Workshop Co-Chair**, The 3rd IEEE International Workshop on the Management of Future Internet (ManFI 2011), Dublin, Ireland, May 27, 2011
49. **Conference Operations Chair**, IEEE Global Communications Conference (Globecom 2009), Hawaii, USA, Nov. 30-Dec.4, 2009
50. **General Co-Chair**, 2009 International Symposium on IT Convergence Engineering (ISITCE 2009), Pohang, Korea, Oct. 16-17, 2009.
51. **General Co-Chair**, 2008 Asia-Pacific Network Operations and Management Symposium (APNOMS 2008), Beijing, China, Oct. 22-24, 2008.
52. **General Chair**, 2006 Asia-Pacific Network Operations and Management Symposium (APNOMS 2006), Busan, Korea, Sept. 27-29, 2006.
53. **Core Member**, TM Forum University Program (2003. 8 – present)
54. **Board Member**, Autonomic Communication Forum (ACF) (Jan 2007 - present)
55. **Editor-in-Chief**, KNOM Review Journal, (1998. 2 – 2012.2)
56. **Director of Online Content**, IEEE Communications Society Board of Governors (2004.1 – 2005.12)
57. **Board Member**, IEEE Communications Society, Marketing Board (2000. 1 – 2001. 12)
58. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2021), Bordeaux, France, May 17-21, 2021.
59. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2019), Washington DC, USA, April 8-12, 2019.
60. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2017), Lisbon, Portugal, May 8-12, 2017.
61. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2015), Ottawa, Canada, May 11-15, 2015.
62. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2013), Ghent, Belgium, May 27-31, 2013.
63. **Steering Committee & Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2011), Dublin, Ireland, May 23-27, 2011.
64. **Finance Chair** and **Technical Program Committee Member**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2009), New York, USA, June 1-6, 2009.
65. **Finance Chair**, IEEE/IFIP International Network Operations and Management Symposium (NOMS 2006), Vancouver, Canada, April 3-7, 2006.
66. **Finance Chair**, IFIP/IEEE International Symposium on Integrated Network Management (IM 2005), Nice, France, May 2005.
67. **Finance Chair and Head of Local Planning Committee**, IEEE/IFIP International Network

- Operations and Management Symposium (NOMS 2004), Seoul, Korea, April 19-23, 2004.
68. **Finance Chair, 2005 IEEE ICC**, Seoul, Korea, May 16-20, 2005
  69. **Special Liaison for ComSoc Activities**, IEEE Comsoc Asia-Pacific Board (Jan. 2006 - Dec. 2007)
  70. **Board Member**, IEEE Comsoc Sister Society Relations Board (Jan. 2006 - present)
  71. **Board Member**, IEEE Comsoc On-Line Content Board (Jan. 2006 - Dec. 2007)
  72. **Vice Chair**, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (2003. 6 – 2005.5)
  73. **Executive Director of International Affairs**, KICS (2007.1- 2009.12)
  74. **Chair**, KICS KNOM (2003. 1 – 2004. 12)
  75. **Vice Chair**, KICS KNOM (2000. 1 – 2002. 12)
  76. **Advisory Board Member**, KCC (Korea Communications Commission) (2008-2012)
  77. **Advisory Board Member**, KT Operations Support System Laboratory (2001-2004)
  78. Member, KCC Future Internet Steering Committee (May 2010 – Dec. 2012)
  79. Member, KCC Mobile Internet Forum (Mar. 2010 – Dec. 2012)
  80. Member, IEEE Comsoc Strategic Planning Committee (Jan. 2010 – Dec. 2011)
  81. Member, IEEE Comsoc Conference Board (Jan. 2010 – Dec. 2011)
  82. Member, IEEE Comsoc Ad-Hoc Committee on Smarphonomics (July 2010 – June 2012)
  83. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2022), Milian, Italy, June 27-July 1, 2022.
  84. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2021), Tokyo Japan, June 28-July 2, 2021.
  85. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2020), Ghent, Belgium, June 29-July 3, 2020.
  86. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2019), Paris, France, June 24-28, 2019.
  87. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2018), Montreal Canada, June 25-29, 2018.
  88. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2017), Bologna, Italy, July 3-7, 2017)
  89. **General Chair & Steering Committee Member, IEEE Conference on Network Softwarization (NetSoft 2016)**, Seoul, Korea, June 6-10, 2016.
  90. Steering Committee & Technical Program Committee Member, IEEE Conference on Network Softwarization (NetSoft 2015), London, UK, April 13-17, 2015.
  91. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2022), Budapest, Hungary, April 25-29, 2022.
  92. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2020), Budapest, Hungary, April 20-24, 2020.
  93. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2018), Taipei, Taiwan, April 23-27, 2018
  94. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2016), Istanbul, Turkey, April 25-29, 2016.
  95. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2014), Krakow, Poland, May 5-9, 2014.
  96. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2012), Maui, Hawaii, USA, April 16-20, 2012.
  97. Steering Committee & Technical Program Committee Member, 18th International Conference on Network and Service Management (CNSM 2022), Thessaloniki, Greece, Oct. 31-Nov. 4, 2022.
  98. Steering Committee & Technical Program Committee Member, 17th International Conference on

- Network and Service Management (CNSM 2021), Izmir, Turkey, Oct. 25-29, 2021.
99. Steering Committee & Technical Program Committee Member, 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, November 2 - 6, 2020.
  100. Steering Committee & Technical Program Committee Member, 15th International Conference on Network and Service Management (CNSM 2019), Halifax, Canada, October 21 - 25, 2019.
  101. Steering Committee & Technical Program Committee Member, 14th International Conference on Network and Service Management (CNSM 2018), Rome, Italy, November 5 - 9, 2018.
  102. Steering Committee & Technical Program Committee Member, 13th International Conference on Network and Service Management (CNSM 2017), Nov. 26-30, 2017, Tokyo, Japan.
  103. Steering Committee & TPC Member, 12th International Conference on Network and Service Management (CNSM 2016), Oct. 31 - Nov. 4, 2016, Montreal, Quebec, Canada.
  104. Steering Committee & TPC Member, 11th International Conference on Network and Service Management (CNSM 2015), November 09-13, 2015, Barcelona, Spain.
  105. Technical Program Committee Member, 2nd International Workshop on Management of SDN and NFV Systems, November 09-13, 2015, Barcelona, Spain.
  106. Steering Committee & TPC Member, 10th International Conference on Network and Service Management (CNSM 2014), November 2014, Rio de Janeiro, Brazil.
  107. Steering Committee & TPC Member, 9th International Conference on Network and Service Management (CNSM 2013), 14-18 October 2014, Zurich, Switzerland.
  108. Steering Committee & TPC Member, 8th International Conference on Network and Service Management (CNSM 2012), 22-26 October 2012, Las Vegas, USA.
  109. Steering Committee & Technical Program Committee Member, 7th International Conference on Network and Service Management (CNSM 2011), 24-28 October 2011, Paris, France
  110. Steering Committee & Technical Program Committee Member, 6th International Conference on Network and Service Management (CNSM 2010), Oct. 2010, Niagara Falls, Canada
  111. Technical Program Committee Member, 4th International Workshop on Distributed Autonomous Network Management Systems 2011 (DANMS11), May 27, 2011, Dublin, Ireland
  112. 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
  113. Technical Program Committee Member, 3rd International Workshop on the Network of the Future (FutureNet III) Dec. 10, 2010, Miami, USA.
  114. Technical Program Committee Member, 4th International Workshop on the Network of the Future (FutureNet IV) June 5-9, 2011, Kyoto, Japan.
  115. 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
  116. Steering Committee, 2nd IEEE/IFIP International Workshop on the Management of Future Internet, (ManFI 2010) April 19, 2010, Osaka, Japan
  117. Technical Program Committee Member, 1st IEEE/IFIP International Workshop on Management of Smart Grids (SmartGridMan 2010) April 23, 2010, Osaka, Japan
  118. Technical Program Committee Member, 1st Int'l Workshop on Smart Grid Communications, May 23-27, 2010, Cape Town, South Africa
  119. Technical Program Committee Member, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 2009
  120. **Workshop Co-Chair**, 1st IEEE International Workshop on the Management of Future Internet (ManFI 2009), New York, USA, June 5, 2009
  121. Technical Program Committee Member, 21st International Teletraffic Congress (ITC 2009), Sept 15-17 2009, Paris, France.
  122. Technical Program Committee Member, 6th Latin-American Network Operations and Management Symposium (LANOMS 2009), October, 2009, Punta del Este, Uruguay.
  123. Steering Committee Member, 5th International Week on Management of Networks and Services (Manweek 2009), 26-30 October 2009, Telecom Italia Future Centre, Venice, Italy.
  124. Steering Committee Member, 12th Asia-Pacific Network Operations and Management Symposium

- (APNOMS 2009), 23-25 Sept. 2009, Seoul, Korea.
125. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium 2009 (GIIS 2009), Hammamet, Tunisia, June 23-25 2009.
  126. Technical Program Committee Member, First International Workshop on Green Communications (GreenComm'09), Dresden, Germany, June 18, 2009.
  127. Advisory Committee Member, 4th IEEE Workshop on Broadband Convergence Networks (BcN 2009), New York, USA, June 5, 2009.
  128. Technical Program Committee Member, 3rd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2009), June 5, 2009, New York, USA.
  129. Technical Program Committee Member, First International Workshop on Traffic Monitoring and Analysis (TMA 2009), Aachen, Germany, May 11 2009
  130. Technical Program Committee Member, Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2008), Venice, Italy, October 20-24, 2008.
  131. Steering Committee & Technical Program Committee Member, IEEE Network Operations and Management Symposium (NOMS 2008), Salvador, Brazil, April 7-11, 2008
  132. Advisory Committee Member, 3rd IEEE Workshop on Broadband Convergence Networks (BcN 2008), Brazil, April 7, 2008
  133. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), Brazil, April 7, 2008
  134. Technical Program Committee Member. 19th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2008), Samos Island, Greece, Sept. 22-26 2008
  135. Technical Program Committee Member, 3rd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2008), Samos Island, Greece, Sept. 22-26 2008
  136. Technical Program Committee Member, 2nd IEEE Workshop on Autonomic Communication and Network Management (ACNM 2008), April 11, 2008, Salvador, Brazil
  137. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium Petropolis, Brazil, September 10-12, 2007
  138. Technical Program Committee Member, 18th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM 2007), Silicon Valley, CA October 29-31, 2007
  139. Technical Program Committee Member, 2nd IEEE International Workshop on Modelling Autonomic Communications Environments (MACE 2007), Silicon Valley, CA October 29-30, 2007 \
  140. Technical Program Committee Member, 2nd IEEE International Workshop on Distributed Autonomous Network Management Systems (DANMS), Washington, USA, 26-30 November 2007.
  141. Program Committee Member, IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2007), Boston, USA, July 9-11, 2007
  142. Technical Program Committee Member, IEEE International Symposium on Integrated Management (IM 2007), Munich, Germany, May 21-25, 2007
  143. Technical Program Committee Member, IEEE International Design and Reliable Communication Networks (DCRN 2007) France, Oct. 7-10, 2007.
  144. Steering Committee & Technical Program Committee Member, 5th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMON), May 21 2007, Munich, Germany
  145. Technical Program Committee Member, IEEE Global Information Infrastructure Symposium (GIIS 2007), Marrakech, Morocco on July 2-5, 2007
  146. Technical Program Committee Member, IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems, Boston, Mass., USA, July 9-11, 2007
  147. Technical Program Committee Member, 17th IFIP/IEEE International Workshop on Distributed Systems (DSOM 2006), Dublin, Ireland, October 23-25, 2006.
  148. Technical Program Committee Member, 8th International Symposium on System and Information Security, Sao Paulo, Brazil, November 08-10, 2006
  149. Technical Chair, KICS KNOM (1996. 1 – 2000. 5)
  150. Technical Program Committee Member, 1st IEEE Workshop on Autonomic Communication and Network Management (ACNM 2007), Munich, Germany, May 25, 2006

151. Technical Program Committee Member, 5th Latin American Network Operations and Management Symposium, Petropolis, Brazil, September 10-12, 2007
152. Technical Chair, IEEE Communications Society, Committee on Network Operations & Management (CNOM) (1998. 6 – 2000. 6)
153. Technical Program Co-Chair, 2000 IEEE/IFIP International Network Operations and Management Symposium (NOMS2000), Hawaii, USA, April 10-14, 2000.
154. Technical Program Co-Chair, 1999 Asia-Pacific Network Operations and Management Symposium (APNOMS'99), Kyongju, Korea, Sept. 15-17, 1999.
155. Technical Program Committee Member, IFIP/IEEE International Workshop on Distributed Systems Operations and Management (DSOM 2005), Barcelona, Spain, Oct. 24-26, 2005.
156. Technical Program Committee Member, The 4th Latin American Network Operations and Management Symposium, Porto Alegre, Brazil, August 29-31, 2005.
157. Technical Program Committee Member, The 3rd Latin American Network Operations and Management Symposium (LANOMS'03), Foz do Iguacu, Parana, Brazil, September 4-6, 2003.
158. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2003), Colorado Springs, USA, March 2003.
159. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS2002), Florence, Italy, April 15-19, 2002.
160. Technical Program Committee Member, The 7<sup>th</sup> Annual Global Internet Symposium, Taipei, Taiwan, November 17-21, 2002.
161. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2001), Nancy, France, October, 2001.
162. Organizing Committee Member, 2001 Asia-Pacific Network Operations and Management Symposium (APNOMS 2001), Sydney, Australia, September 26-28, 2001.
163. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM 2001), Seattle, USA, May 2001.
164. Technical Program Committee Member, 2000 IEEE/IFIP International Conference on Management of Multimedia Networks and Services (MMNS 2000), Fortaleza, Brazil, July 26-28, 2000.
165. Technical Program Committee Member, 2000 IEEE Workshop on IP-oriented Operations & Management (IPOM 2000), Cracow, Poland, September 4-6, 2000
166. Organizing Committee Member, 2000 Asia-Pacific Network Operations and Management Symposium (APNOMS 2000), Nara, Japan, September 2000.
167. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM 2000), Austin, TX, USA, December, 2000.
168. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'99), Boston, USA, May, 1999.
169. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'98), Delaware NJ, USA, Oct. 1998.
170. Organizing Committee Member, 1998 Asia-Pacific Network Operations and Management Symposium (APNOMS'98), Sendai, Japan, Sept. 16-18, 1998.
171. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium (NOMS'98), New Orleans, USA, Feb., 1998.
172. Technical Program Committee Member, IEEE/IFIP International Symposium on Integrated Network Management (IM'97), San Diego, CA, USA, May 12-16, 1997.
173. International Liaison Chair, 1997 Asia-Pacific Network Operations and Management Symposium (APNOMS'97), Seoul Korea, Oct. 8-10, 1997.
174. Technical Program Committee Member, IEEE/IFIP International Workshop on Distributed Systems Operations and Management (DSOM'97), Sydney Australia, Oct. 21-23, 1997.
175. Technical Program Committee Member, IEEE/IFIP International Network Operations and Management Symposium, Kyoto, Japan, April 1996.
176. Technical Program Member, 1996 IEEE International Workshop on Systems Management (SMW2), Toronto, Canada, June 1996.

177. 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. Development of LLM-based Network Configuration Management Automation Technology, Samsung Electronics (June 2025 – May 2026), 64,125,000 KRW.
2. Development of an intelligent big data integrated platform for customized health management services for police officers, IITP (Feb. 2025-Dec. 2025), 87,610,000 KRW.
3. Development of Integrated Network Intelligence Plane Technology for 6G, IITP (Feb. 2025-Dec. 2025), 15,000,000 KRW.
4. Development of LLM-based Network Configuration Management Automation Technology, Samsung Electronics (April 2024 – March 2025), 64,125,000 KRW.
5. Design and Implementation of Seamless Asset and Data Transfer Services Across Various Blockchain Platforms, Hana Financial Research Center (Jan. 2024-June 2024), 110,000,000 KRW.
6. Development of an intelligent big data integrated platform for customized health management services for police officers, IITP (Feb. 2024-Dec. 2024), 87,610,000 KRW.
7. Development of Integrated Network Intelligence Plane Technology for 6G, IITP (April 2024-Dec. 2024), 10,000,000 KRW.
8. Development of Network Anomaly Detection Technology based on Natural Language Processing and Machine Learning, Samsung Electronics (April 2023 – March 2024), 64,125,000 KRW.
9. Network Switch Anomaly Detection using Natural Language Processing, Samsung Electronics (April 2022 – March 2023), 64,125,000 KRW.
10. Development of an intelligent big data integrated platform for customized health management services for police officers, IITP (Feb. 2023-Dec. 2023), 90,000,000 KRW
11. Development of virtual network management technology based on artificial intelligence, IITP (Feb. 2023-Dec. 2023), 370,000,000 KRW
12. Future financial innovation leading cryptocurrency and blockchain technology development, Coinone, (March. 2022-Dec.2022), 875,000,000 KRW
13. Development of big data integration platform that provides city management service, KIPoT (April. 2022-Dec. 2022), 100,000,000 KRW
14. Development of Internet Infrastructure System Technologies and R&D Human Resources, IITP (March 2022-Dec. 2022), 60,000,000 KRW
15. Development of an intelligent big data integrated platform for customized health management services for police officers, IITP (Feb. 2022-Dec. 2022), 100,000,000 KRW
16. Development of virtual network management technology based on artificial intelligence, IITP (Feb. 2022-Dec. 2022), 370,000,000 KRW
17. Development of Travel Rule Compliance System for VASP, CODE (Sep. 2021-Aug, 2022), 100,000,000 KRW.
18. R&D on Central Bank Digital Currency (CBDC), Hana Financial Group (Jan. 2021–Dec. 2021), 181,818,181 KRW.
19. R&D on AI-based Student Learning Recognition using Vmeeting, NIA (May 2021–Dec. 2021), 63,000,000 KRW.
20. POSTECH-Stanford AI Joint Research and Education Program, IITP (June 2020–Nov. 2021), 1,000,000,000 KRW.
21. Development of Traffic Engineering Technology using AI, Samsung Electronics (April 2021–March 2022), 64,125,000 KRW.
22. Development of virtual network management technology based on artificial intelligence, IITP (Feb. 2021-Dec. 2021), 370,000,000 KRW.
23. Development of Traffic Engineering Technology using AI, Samsung Electronics (April 2020 – March 2021), 64,125,000 KRW

24. Development of virtual network management technology based on artificial intelligence, IITP (Feb. 2020-Dec. 2020), 370,000,000 KRW
25. R&D on Blockchain Transaction Monitoring and Analysis, IITP (Jan. 2020-Dec. 2020), 90,000,000 KRW.
26. Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP (Jan. 2020-Dec. 2020), 104,000,000 KRW
27. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (Feb. 2020-May. 2020), 30,000,000 KRW
28. Development of virtual network management technology based on artificial intelligence, IITP (Feb. 2019-Dec. 2019), 370,000,000 KRW
29. Development of Artificial Intelligence MOOC Education Map, Ministry of Education, (Oct. 2019 0 Nov. 2019), 20,000,000 KRW
30. R&D on Blockchain Transaction Monitoring and Analysis, IITP (Jan. 2019-Dec. 2019), 90,000,000 KRW.
31. Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP (Jan. 2019-Dec. 2019), 104,000,000 KRW
32. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (Feb. 2019-Dec. 2019), 50,000,000 KRW
33. Development of virtual network management technology based on artificial intelligence, IITP (Jul. 2018-Dec. 2018), 170,000,000 KRW
34. R&D on Blockchain Transaction Monitoring and Analysis, IITP (April, 2018-December 2018), 100,000,000 KRW.
35. Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP (Jan. 2018-Dec. 2018), 100,000,000 KRW
36. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (April 2018-January 2019), 90,000,000 KRW
37. Development of Internet Infrastructure System Technologies and R&D Human Resources, IITP (March 2018-Dec. 2018), 60,000,000 KRW
38. Development of Smart Mediator for Mashup Service and Information Sharing among ICBMS Platform, IITP (Mar. 2017-Feb. 2018), 170,000,000 KRW
39. Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP (April 2017-Dec. 2017), 90,000,000 KRW
40. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (June 2017-May 2018), 60,000,000 KRW
41. Research and Development of SDN-based Multi-protocol support network virtualization and virtual network snapshot technologies, IITP (June 2017-Dec. 2018), 50,000,000 KRW
42. Development of Internet Infrastructure System Technologies and R&D Human Resources, IITP (June 2017-Dec. 2017), 60,000,000 KRW
43. Korea-US Collaborative Research on SDN/NFV Security/Network Management and Testbed Build, IITP (June 2016-May 2017), 200,000,000 KRW
44. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (June 2016-May 2017), 90,000,000 KRW
45. Research and Development of ICBMS Smart Mediator, IITP (Mar. 2015-Feb. 2016), 200,000,000 KRW.
46. Research and Development of Open Source Networking Software, IITP (June 2015-May 2016), 90,000,000 KRW.
47. Korea-US Collaborative Research on SDN/NFV Security/Network Management and Testbed Build, IITP (June 2015-May, 2016), 200,000,000 KRW.
48. Global SDN/NFV Open Source Software Core Module/Function Development, IITP (June 2015-May 2016), 90,000,000 KRW
49. Research on Increasing Privacy and Reliability using Multiple Cloud Systems, Microsoft (Oct. 2014 – June. 2015), 60,000,000 KRW

50. Research on 4G and IMS Network Architecture in an IPv6 Environment, KISA (Sept. 2014 – Jan. 2015), 45,000,000 KRW.
51. Research on Use Cases of LISP, KT (June 2014 – Dec. 2014), 70,000,000 KRW
52. Research on A Study of Korean version of Co-op Program, MSIP (June 2014 – Dec. 2014), 30,000,000 KRW
53. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Mar. 2013 – Dec. 2013), 32,000,000 KRW
54. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MEST) (Sept. 2012 – Aug. 2013), 4,150,000,000 KRW
55. Design and Implementation of Mobile Traffic Classification Methodology, Microsoft (Oct. 2011 – June 2012), 60,000,000 KRW
56. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MEST) (Sept. 2011 – Aug. 2012), 4,150,000,000 KRW
57. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Mar. 2012 – Dec. 2012) 55,000,000 KRW
58. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MEST) (Oct. 2010 – Aug. 2011), 4,150,000,000 KRW
59. Research on Security Issues in Mobile Cloud Service Environment, KT (June 2011 – Dec. 2011) 100,000,000 KRW
60. HiMang Future Internet Project, ETRI (Mar. 2011 – Feb. 2012) 80,000,000 KRW
61. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2011 – Dec. 2011) 54,000,000 KRW
62. Semantic-based Movie Recommender System, KT (June 2010 – Nov. 2010) 100,000,000 KRW
63. Self-Organizing Network Expert System (SONES), Samsung Electronics (May 2010 – Oct. 2010) 60,000,000 KRW
64. HiMang Future Internet Project, ETRI (Mar. 2010 – Feb. 2011) 150,000,000 KRW
65. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2010 – Dec. 2010) 60,000,000 KRW
66. Cognitive Network Management System, KIAT (Nov. 2009 – Oct. 2010) 20,000,000 KRW
67. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MEST) (Nov. 2009 – Sep. 2010), 4,150,000,000 KRW
68. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2009 – Dec. 2009) 40,000,000 KRW
69. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and Analysis Research (MKE) (Jan. 2009 - Dec.2009) 75,000,000 KRW
70. IT Convergence for Ubiquitous Autonomic Systems, WCU Project (MEST) (Dec. 2008 – Oct. 2009), 4,274,000,000 KRW
71. Research on Traffic Control of Interconnection area among ISPs (KT) (Jul. 2008 – Nov. 2008) 35,000,000 KRW
72. CASFI (Collect, Analyze, and Share for Future Internet): High-Precision Measurement and Analysis

- Research (MKE) (Mar. 2008 - Dec.2008) 60,000,000 KRW
73. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Jan. 2008 – Dec. 2008) 40,000,000 KRW
  74. Fault Detection and Prediction of POSCO Control Networks (POSCO) (Feb. 2007 – Jan. 2008) 200,000,000 KRW
  75. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Sept. 2007 – Dec. 2008) 60,000,000 KRW
  76. Research on Effective Planning of All-IP Networks (POSCO) (Jan. 2007 – Dec. 2007) 272,840,000 KRW
  77. Traffic Analysis of Access Networks for Triple Play Service (KT) (June 2007 – Nov. 2007) 39,000,000 KRW
  78. Research on SNMP-based Management of Tactical Networks (Samsung Thales) (Jan. 2007 – Dec. 2007) 50,000,000 KRW
  79. Integrated Remote Fault Analysis of POSCO Control Networks (POSCO) (Jun. 2006 – May 2007) 250,000,000 KRW
  80. Realization of TSA using Web Services from NGOSS TNA (KT) (Apr. 2006 – Nov. 2006) 50,000,000 KRW
  81. Research on Embedded Software Technology for Network Convergence Mobile Platforms (ITRC, IITA) (Sept. 2005 – Aug. 2007) 100,000,000 KRW
  82. Implementation of Manager for Broadband Power Line Communication Network Management System (KEPCO) (Sept. 2005 – Aug. 2008) 165,000,000 KRW
  83. KT Operations Support System Laboratory (September 2005 – December 2005), Internet Application Traffic Identification, 30,000,000 KRW
  84. Electronics and Telecommunications Research Institute (ETRI), (May 2005 – Oct. 2005) A Performance Evaluation Study on WBEM Implementations, 30,000,000 KRW
  85. Korea Industrial Technology Foundation (KOTEF), (Dec. 2003 – Aug. 2005) “Internet Traffic Monitoring, Analysis and Control” 200,000,000 KRW
  86. Electronics and Telecommunications Research Institute (ETRI), (May 2004 – Nov. 2004) “Development of CIM/WBEM-based Systems Management Framework” 50,000,000 KRW
  87. National Security Research Institute (NSRI), (Apr. 2004 – Nov. 2004) “Analysis of Internet Worm Traffic” 20,000,000 KRW
  88. KTF (Oct. 2003 - Apr. 2004) “Research on KTF New Generation Integrated OSS Architecture”, 45,000,000 KRW.
  89. Electronics and Telecommunications Research Institute (ETRI), (Aug. 2003 - Dec. 2003), “Development of Secure Internet Router for Detecting DDoS Attacks”, 28,500,000 KRW.
  90. KT (June 2003 - Dec. 2003), “Research on Network Security Attack Detection Methods Based on Internet Traffic Monitoring and Analysis”, 29,400,000 KRW.
  91. DACOM (Apr. 2003 - Nov. 2003), “Development and Deployment of Network Monitoring and Analysis System”, 40,000,000 KRW.
  92. PIRL, POSTECH (Dec. 2002 - Nov. 2003), “Research on High-Speed Network Monitoring and Analysis Methods”, 12,000,000 KRW.

93. HY-SDR Research Center (Aug. 2002 - July 2003), "Research on Detecting Methods for Internet Security Attacks via Traffic Monitoring", 20,000,000 KRW.
94. KT (Aug. 2002 – Nov. 2002) "A Study on Value-Added Services for High-Speed Broadband Internet Service Providers", 27,000,000 KRW.
95. Ifeelnet Inc., (Feb. 2002 – Feb. 2003), "Research on Efficient IP Network Traffic Monitoring and Analysis Methods", 30,000,000 KRW.
96. POSCO, (Jan. 2000 - June 2001), "Development of Internet Server Technology Supporting Differentiated QoS Services", 342,396,933 KRW.
97. 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 KRW.
98. POSCO, (Jan. 2000 - Dec. 2000), "Research on LAN Configuration, Traffic Monitoring and Control in High-Speed Switching LANs", 288,215,499 KRW.
99. POSCO, (Jan. 2000 - Dec. 2000), "Research on Voice, Video and Data Integration for POSCO Network", 310,667,662 KRW.
100. POSCO, (Jan. 1999 - Dec. 1999), "Research on POSCO Enterprise Network Planning", 253,463,000 KRW.
101. POSCO, (Jan. 1999 - Dec. 1999), "Development of Lightweight and High-Performance Web Cache Server", 15,675,000 KRW.
102. Korea Telecom, (Jan. 1999 - Dec. 1999), "TMN-based Integrated Network Management Using Web Technology (II)", 63,243,000 KRW.
103. POSDATA, (Oct. 1998 - May 1999), "Development of PC-based Multimedia Applications", 43,600,000 KRW.
104. OpenTech, (May 1998 - Oct. 1998), "DCE Management Subsystem Development", 10,234,000 KRW.
105. Korea Telecom, (Feb. 1998 - Dec. 1998), "TMN-based Integrated Network Management Using Web Technology (I)", 43,600,000 KRW.
106. ETRI, (Apr. 1998 - Nov. 1998), "Research on Service Management Using Distributed Object-Oriented Technology", 20,000,000 KRW.
107. System Engineering Research Institute (SERI), (Nov. 1997 - June 1998), "Development of UNIX Workstation-based Remote Research Collaboration Platform", 50,000,000 KRW.
108. SERI, (May 1997 - Mar. 1998), "A Study on Developing QoS MIB for Managing Application Services", 20,000,000 KRW.
109. ETRI, (Mar. 1997 - Nov. 1997), "A Study on Management of Internet Application Services", 30,000,000 KRW.
110. POSCO, (Oct. 1996 - Aug. 1997), "Planning for Efficient Utilization of POSCO Computing Resources", 199,626,000 KRW.
111. Samsung Electronics, (Sept. 1996 - Aug. 1998), "Development of DMI-based Samsung PC Server Management System", 230,000,000 KRW.

112. ETRI, (Apr. 1996 - Nov. 1996), "A Study on the Standardization of Distributed Systems Software", 30,000,000 KRW.
113. Korea Research Foundation, (Dec. 1995 - Nov. 1997), "Management of Distributed Multimedia Systems and Applications", 30,000,000 KRW.
114. Pohang University of Science and Technology, (Sept. 1995 - Aug. 1996), "Management of Distributed Systems and Applications", 30,000,000 KRW.
115. POSTECH Information Research Laboratories, (Sept. 1995 - Aug. 1996), "A Study on Support for Distributed Management of Networks and Systems", 20,000,000 KRW.

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

## 7. Refereed Publications

### A. International Journal Papers

1. Jibum Hong, Nguyen Van Tu, James Won-Ki Hong, "A Comprehensive Survey on LLM-Based Network Management and Operations", *International Journal of Network Management (IJNM)* (SCIE), Oct 2025.
2. Changhoon Kang, Jongsoo Woo, James Won-Ki Hong, "A Comprehensive Survey of Lightning Network Technology and Research", *International Journal of Network Management (IJNM)* (SCIE), Aug 2025.
3. Changhoon Kang, Jongsoo Woo, James Won-Ki Hong, "A2C Reinforcement Learning for Cryptocurrency Trading: Analyzing the Impact of Price Prediction Accuracy and Data Granularity", *International Journal of Network Management (IJNM)* (SCIE), Aug 2025.
4. Lizhuang Tan, Xin Dong, Xiaochuan Gao, Peiyong Zhang, Wei Su, James Won-Ki Hong, "Enhancing QUIC Performance in Heterogeneous Networks: A Proactive Connection Migration Approach", *International Journal of Network Management (IJNM)* (SCIE), Jul 2025.
5. Nguyen Van Tu, Sukhyun Nam, Lizhuang Tan, James Won-Ki Hong, "DRAFAS: Dynamic Resource Allocation for AI-Native Services", *Journal of Network and Systems Management* 33.4 (2025): 86.
6. Khizar Abbas, Yeongpil Cho, Muhammad Afaq, Ali Nauman, Jae-Hyung Yoo, James Won-Ki Hong, "IBN-ZTSA: AI-IBN for Zero Touch Service Automation of B5G Terrestrial and Non-Terrestrial Networks", *IEEE Communications Standards Magazine* (SCIE), May 2025.
7. Sukhyun Nam, Eui-Dong Jeong, James Won-Ki Hong, "Log-TF-IDF and NETCONF based Switch Anomaly Detection", *International Journal of Network Management (IJNM)* (SCIE) Jan 2025.
8. Nguyen Van Tu, Sangwoo Ryu, Kyungchan Ko, Jae-Hyung Yoo, James Won-Ki Hong, "Muno: Improved Bandwidth Estimation Scheme in Video Conferencing using Deep Reinforcement Learning", *International Journal of Network Management (IJNM)* (SCIE) Jan 2025.
9. Nguyen Van Tu, Kyungchan Ko, Sangwoo Ryu, James Won-Ki Hong, "Muno: Improved Bandwidth Estimation Scheme in Video Conferencing using Deep Reinforcement Learning," *International Journal of Network Management (IJNM)* (SCIE), Dec. 2024.
10. Nguyen Van Tu, Sukhyun Nam, James Won-Ki Hong, "Intent-Based Network Configuration Using Large Language Models", *International Journal of Network Management (IJNM)* (SCIE), Nov 2024.
11. Daniela N. Rim, DongNyeong Heo, Chungjun Lee, Sukhyun Nam, Jae-Hyung Yoo, James Won-Ki Hong, Heeyoul Choi, "Anomaly detection based on system text logs of virtual network functions", *Big Data Research* (SCIE), Volume 38, 2024.
12. Wonseok Choi, Jongsoo Woo, and James Won-Ki Hong, "Fractional non-fungible tokens: Overview, evaluation, marketplaces, and challenges", *International Journal of Network Management (IJNM)* (SCIE), Jul/Aug 2024.
13. Kyungchan Ko, Taeyeol Jeong, Jongsoo Woo, and James Won-Ki Hong, "Survey on blockchain-based non-fungible tokens: History, technologies, standards, and open challenges", *International Journal of Network Management (IJNM)* (SCIE), Jan/Feb 2024.
14. Khizar Abbas, Ali Nauman, Muhammad Bilal, Jae-Hyung Yoo, James Won-Ki Hong, Wang-Cheol Song, "AI-Driven Data Analytics and Intent-Based Networking for Orchestration and Control of B5G Consumer Electronics Services", *Transactions on Consumer Electronics*, (SCIE), Volume: 70, Issue: 1, February 2024, pp. 2155 - 2169.
15. Khizar Abbas, Jibum Hong, Nguyen Van Tu, Jae-Hyung Yoo, James Won-Ki Hong, "Autonomous DRL-based energy efficient VM consolidation for cloud data centers", *Physical Communication*, (SCIE), vol.55, December 2022.
16. Suman Pandey, Minji Choi, Jae-Hyung Yoo, and James Won-Ki Hong, "RNN-EdgeQL: An Auto-Scaling and Placement Approach for SFC", *International Journal of Network Management (IJNM)* (SCIE), September 2022.
17. Tu Van Nguyen, Jae-Hyung Yoo, James Won-Ki Hong, "PPTMon: Real-time and Fine-grained Packet Processing Time Monitoring in Virtual Network Functions", *IEEE Transactions on Network and Service Management (TNSM)* (SCIE), December, 2021.

18. Doyoung Lee, Seyeon Jeong, Kyungchan Ko, Jae-Hyoung Yoo, James Won-Ki Hong, "Deep Q-network-based auto scaling for service in a multi-access edge computing environment", *International Journal of Network Management (IJNM) (SCIE)*, June 2021.
19. Hee-Gon Kim, Suhyun Park, Stanislav Lange, Doyoung Lee, Dongnyeong Heo, Heeyoul Choi, Jae-Hyoung Yoo, James Won-Ki Hong, "Graph neural network-based virtual network function deployment optimization", *International Journal of Network Management (IJNM) (SCIE)*, May 2021.
20. Stanislav Lange, Doyoung Lee, Nguyen Van Tu, Heegon Kim, Seyeon Jeong, Ji-Bum Hong, Jae-Hyoung Yoo, James W. Hong, "A Network Intelligence Architecture for Efficient VNF Lifecycle Management," *IEEE Transactions on Network and Service Management (TNSM) (SCIE)*, August 2020.
21. Nguyen Van Tu, Jae-Hyoung Yoo, and James Won-Ki Hong, "Accelerating Virtual Network Functions with Fast-Slow Path Architecture using eXpress Data Path", *IEEE Transactions on Network and Service Management (TNSM) (SCIE)*, June 2020.
22. Jonghwan Hyun, Nguyen Van Tu, Jae-Hyoung Yoo and James Won-Ki Hong, "Real-time and fine-grained network monitoring using in-band network telemetry", *International Journal of Network Management (IJNM) (SCIE)*, Vol. 29, Issue 6, November 2019.
23. Woojoong Kim, James Won-Ki Hong, Young-Joo Suh, "T-DCORAL: A Threshold-based Dynamic Controller Resource Allocation for Elastic Control Plane in Software-Defined Data Center Networks", *IEEE Communications Letters*, Vol. 23, Issue 2, Feb. 2019, pp. 198-201.
24. Woojoong Kim, Jian Li, Young-Joo Suh and James Won-Ki Hong, "HeS-CoP: Heuristic Switch-controller Placement Scheme for Distributed SDN Controllers in Data Center Networks", *International Journal of Network Management (IJNM) (SCIE)*, Vol. 28, Issue 3, May, 2018.
25. Yoonseon Han, Thomas Vachuska, Ali Al-Shabibi, Jian Li, Huibai Huang, William Snow and James Won-Ki Hong, "ONVisor: Towards a Scalable and Flexible SDN-based Network Virtualization Platform on ONOS", *International Journal of Network Management (IJNM) (SCIE)*, Vol. 28, Issue 2, March 2018.
26. Filip De Turck, Joon-Myung Kang, Hyunseung Choo, Myung-Sup Kim, Baek-Young Choi, Remi Badonnel and James Won-Ki Hong, "Softwarization of networks, clouds, and internet of things", *International Journal of Network Management (IJNM) (SCIE)*, Vol. 27, Issue 2, March 2017.
27. Jian Li, Jae-Hyoung Yoo, and James Won-Ki Hong, "Dynamic Control Plane Management for Software-Defined Networks", *International Journal of Network Management (IJNM)*. vol. 26, no.2, Mar./Apr., 2016, pp. 111-130. (SCIE)
28. Jaeyoon Chung, Youngjoon Won, Byungchul Park, and James Won-Ki Hong, "Mass-Count Disparity in Mobile Traffic", *IEEE Communications Letters*, vol. 20, no. 1, Jan., 2016, pp. 65-68. (SCI)
29. Taeyeol Jeong, Jian Li, Jonghwan Hyun, Jae-Hyoung Yoo, and James Won-Ki Hong, "LISP controller: a centralized LISP management system for ISP networks", *International Journal of Network Management (IJNM)*, vol. 25, no. 6, Nov./Dec., 2015, pp. 507-525. (SCIE)
30. Jae Yoon Chung, Sangtae Ha, and James Won-Ki Hong, "A Management Architecture for Client-defined Cloud Storage Services", *International Journal of Network Management (IJNM)*, vol. 25, no. 6, Nov./Dec., 2015, pp. 435-453. (SCIE) (NIPA support)
31. Sin-seok Seo, Joon-Myung Kang, Alberto Leon-Garcia, Yoonseon Han, and James Won-Ki Hong, "User-centric Context Data Collection and Provision Harnessing Content-Centric Networking Paradigm", *International Journal of Network Management (IJNM)*, vol. 24, no. 1, Jan./Feb., 2014, pp. 48-69. (SCIE)
32. Sungsu Kim, Joon-Myung Kang, Sin-seok Seo, and James Won-Ki Hong, "A Cognitive Model based Approach for Autonomic Fault Management in OpenFlow Networks", *International Journal of Network Management (IJNM)*, vol. 23, no. 6, Nov./Dec., 2013, pp. 383-401. (SCIE)
33. Byungchul Park, Youngjoon Won, JaeYoon Chung, Myung-sup Kim, and James Won-Ki Hong, "Fine-grained Traffic Classification based on Functional Separation", *International Journal of Network Management (IJNM)*, vol. 23, no. 6, Sept./Oct, 2013, pp. 350-381. (SCIE)
34. Seong-Cheol Hong, Hong-Taek Ju, and James Won-Ki Hong, "Network Reachability-based IP Prefix Hijacking Detection", *International Journal of Network Management (IJNM)*, Volume 23, Issue 1, pp.

- 1–15, Jan./Feb. 2013. (SCIE)
35. Filip De Turck, Yoshiaki Kiriha and James Won-Ki Hong, "Management of the Future Internet: Status and Challenges - A Report on the 4th IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2012)", *Journal of Network and Systems Management*, Springer, Vol 20, No. 4, December, 2012, pp. 616~624 (SCIE)
  36. Youngjoon Won, Mi-Jung Choi, Byungchul Park, and James Won-Ki Hong, "An Approach for Failure Recognition in IP-Based Industrial Control Networks and Systems", *International Journal of Network Management (IJNM)*, Volume 22, Issue 6, pp. 477–493, Nov./Dec. 2012. (SCIE)
  37. Yoonseon Han, Yeongrak Choi, and James Won-Ki Hong, "Experience on the Development of ComSoc Application for Smart Phones", *IEEE Communications Magazine*, vol. 50, no. 4, April, 2012. pp. 106-112 (SCI)
  38. James Won-Ki Hong, Yuan-Kuang Tu, Choong Seon Hong, Shian-Shyong Tseng, Yoshiaki Kiriha, Han-Chieh Chao, Marat Zhanikeev and Wang-Cheol Song, "Managing Clouds, Smart Networks and Services: A Report on APNOMS 2011", *Journal of Network and Systems Management*, Vol 20, No. 1, March, 2012, pp. 134-142 (SCIE)
  39. Sungsu Kim, Jame Won-Ki Hong, John Strassner, and Taesang Choi, "A Report on the 3rd IFIP/IEEE International Workshop on Management of the Future Internet (ManFI 2011)", *Journal of Network and Systems Management*, Vol 19, No. 4, December, 2011, pp. 549-554 (SCIE)
  40. Taesang Choi, Tae-Ho Lee, Nodir Kodirov, Jaegi Lee, Doyeon Kim, Joon-Myung Kang, Sungsu Kim, John Strassner, and James Won-Ki Hong, "HiMang: Highly Manageable Network and Service Architecture for New Generation", *Journal of Communications and Networks*, Vol. 13, pp. 552-566, Dec. 2011, (SCI).
  41. Joon-Myung Kang, Sin-seok Seo and James Won-Ki Hong, "Personalized Battery Lifetime Prediction for Mobile Devices based on Usage Patterns", *Journal of Computing Science and Engineering*, vol. 5, no. 4, pp. 338-345, Dec. 2011.
  42. Byungchul Park, Young J. Won, and James Won-Ki Hong, "Toward Fine-grained Traffic Classification", *IEEE Communications Magazine*, vol. 49, Issue 7, July, 2011. pp. 104-111 (SCI).
  43. 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*. Volume 55, Issue 7, May 2011, Pages 1520-1532 (SCIE).
  44. 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)*, vol. 21, issue 3, pp. 169-184, May 2011 (SCIE)
  45. 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).
  46. Lisandro Zambenedetti Granville, Deep Medhi, Yoshiaki Kiriha, James Won-Ki Hong, Nobuo Fujii, "Towards Management of Future Networks and Services: A Report on IEEE/IFIP NOMS 2010", *Journal of Network and Systems Management*, Springer, June. 12, 2010
  47. 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)
  48. Iris Hochstatter, James Won-Ki Hong, and Gabi Dreo Rodosek, "Is the Management of the Future Internet Ignored? A Report on ManFI 2009", *Journal of Network and Systems Management*, Springer, Dec. 5, 2009.
  49. 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)
  50. James Won-Ki Hong , Luoming Meng , Young-Tak Kim Hiroshi Uno , Shingo Ata , Yan Ma, Deokjai Choi, " Challenges for Next Generation Network Operations and Service Management: a Report on

- APNOMS 2008," *Journal of Network and Systems Management*, Springer, Vol. 17, No. 1, Feb. 28, 2009, pp. 91-98.
51. 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)
  52. 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)
  53. 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)
  54. 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)
  55. 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
  56. James Won-Ki Hong, Hiroshi Kuriyama, Young-Tak Kim, Makoto Takano, "Management of Convergence Networks and Services: A Report on APNOMS 2006," *Journal of Network and Systems Management*, Springer, Vol. 14, No. 4, September 2006, pp. 603-608.
  57. 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).
  58. 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).
  59. 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)
  60. Ramy Farha, Myung Sup Kim, Alberto Leon-Garcia, and James Won-Ki Hong, "Toward Autonomic Service Architecture", *Lecture Notes in Computer Science*, vol. 3751, *Operations and Management in IP-Based Networks*, 5th IEEE Workshop on IP Operations and Management (IPOM 2005), Barcelona, Spain, Oct., 2005, pp. 58-67. (SCIE)
  61. Sun-Mi Yoo, Hong-Taek Ju, and James Won-Ki Hong, "Web Services Based Configuration Management for IP Network Devices", *Lecture Notes in Computer Science*, vol. 3754, *Management of Multimedia Networks and Services*, 8th International Conference on Management of Multimedia Networks and Services (MMNS 2005), Barcelona, Spain, Oct., 2005, pp. 254-265. (SCIE)
  62. 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)
  63. 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).
  64. 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)
  65. 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)
  66. 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.
67. 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.
  68. 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).
  69. 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).
  70. Sook-Hyun Ryu, Jae-Young Kim, and James W. Hong, "Approaches to Support Differentiated Quality of Web Service", *Lecture Notes in Computer Science*, vol. 2156, *Quality of Future Internet Services, QoSIS 2001*, September 2001, pp. 273-285. (SCIE)
  71. 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.
  72. 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.
  73. 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.
  74. D. N. Zuckerman, J. W. Hong and R. Weihmayer, "The Networked Planet: Management Beyond 2000 - A Report on NOMS 2000," *Journal of Network and Systems Management*, Plenum Press, Vol. 8, No. 3, September 2000, pp. 439-442.
  75. 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.
  76. 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.
  77. Y. H. Cho, H. Tokunaga, J. W. Hong, and T. Chujo, "Meeting the Challenge in End-to-End Service Management: A Report on APNOMS'99," *Journal of Network and Systems Management*, Plenum Press, Vol. 7, No. 4, December 1999, pp. 497-500.
  78. 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)
  79. 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)
  80. 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)
  81. 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.
  82. M. Ejiri, J. T. Park, H. Okazaki, and J. W. Hong, "Managing the New Telecommunications Paradigms: A Report on APNOMS'98", *Journal of Network and Systems Management*, Plenum Press, Vol. 6, No. 4, December 1998, pp. 497-500.
  83. 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.
84. J. W. Hong, "Toward Global Network Management", *Journal of Network and Systems Management*, Plenum Press, Vol. 6, No. 1, March 1998, pp. 91-93.
  85. J. W. Hong, J. Y. Kong, T. H. Yun, J. S. Kim, J. T. Park and J. W. Back, "Web-based Intranet Services and Network Management", *IEEE Communications Magazine*, Vol. 35, No. 10, October 1997, pp. 100-110 (SCI).
  86. 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.
  87. 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).
  88. 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.
  89. 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.
  90. 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
  91. 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. Won-Ki Hong et al., *CYDIO CIGMA*, May 2020 (in Korean)
2. 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.
3. 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.
4. 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. Lizhuang Tan, Xin Dong, Tu Van Nguyen, James Won-Ki Hong, "IntDB: Towards a Spatiotemporal Database for in-Band Network Telemetry", *The 25th Asia-Pacific Network Operations and Management Symposium (APNOMS 2025)*, Kaohsiung, Taiwan, September 22-24, 2025.
2. Sukhyun Nam, Nguyen Van Tu, James Won-Ki Hong, "LLM-based VNF Deployment Automation in OpenStack Environment", *2025 IEEE/IFIP Network Operations and Management Symposium (NOMS 2025)*, Honolulu, HI, USA, 12-16 May 2025.
3. Jeongheon Kim, Changhoon Kang, James Won-Ki Hong, "A Comprehensive Survey of Coin Mixing

- Protocols", 3rd IEEE International Workshop on Cryptocurrency Exchanges (CryptoEx 2025), Pisa, Italy, 2–6 June 2025
4. Chaehyeon Lee, Jonathan Heiss, Stefan Tai, James Won-Ki Hong, "End-to-End Verifiable Decentralized Federated Learning", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2024), Dublin, Ireland, 27-31 May, 2024.
  5. Wonseok Choi, Euidong Jeong, Jongsoo Woo, James Won-Ki Hong, "Optimizing Block Propagation in Bitcoin Network with Region-based Neighbor Selection Using Reinforcement Learning", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2024), Dublin, Ireland, 27-31 May, 2024.
  6. Changhoon Kang, Jongsoo Woo, James Won-Ki Hong, "A2C Reinforcement Learning for Cryptocurrency Trading and Asset Management", 2nd IEEE International Workshop on Cryptocurrency Exchanges (CryptoEx 2024), Dublin, Ireland, 31 May, 2024.
  7. Sukhyun Nam, Jae-Hyoung Yoo, James Won-Ki Hong, "Log-TF-IDF for Anomaly Detection in Network Switches", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  8. Kyungchan Ko, Sanwoo Ryu, Tu Van Nguyen, James Won-Ki Hong, "Optimizing Video Conferencing QoS: A DRL-based Bitrate Allocation Framework", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  9. Sanwoo Ryu, Kyungchan Ko, Tu Van Nguyen, James Won-Ki Hong, "Towards Effective Reinforcement Learning in Video Conferencing using Network Status Data and Model Analysis", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  10. Tu Van Nguyen, Jae-Hyoung Yoo, James Won-Ki Hong, "Towards Intent-based Configuration for Network Function Virtualization using In-context Learning in Large Language Models", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  11. Hee-Gon Kim, Jae-Hyoung Yoo, James Won-Ki Hong, "AI-based Network Function Virtualization Orchestration", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  12. Eui-Dong Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "SFC Consolidation: Energy-aware SFC Management using Deep Reinforcement Learning", 2024 IEEE/IFIP Network Operations and Management Symposium (NOMS 2024), Seoul, South Korea, 6-10 May, 2024.
  13. Eui-Dong Jeong, Hee-Gon Kim, Sukhyun Nam, Jae-Hyoung Yoo, James Won-Ki Hong, "S-Witch: Switch Configuration Assistant with LLM and Prompt Engineering", 1st IEEE/IFIP Workshop on Generative AI for Network Management 2024 (GAIN 2024), Seoul, South Korea, 10 May, 2024.
  14. 2023
  15. Sukhyun Nam, Euidong Jeong, Jibum Hong, Jae-Hyoung Yoo, and James Won-Ki Hong, "Log Analysis and Prediction for Anomaly Detection in Network Switches", 19th International Conference on Network and Service Management (CNSM 2023), Niagara Falls, Canada, Oct. 30 – Nov. 2, 2023.
  16. Eui-Dong Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "SDN Lullaby: VM Consolidation for SDN using Transformer-Based Deep Reinforcement Learning", 19th International Conference on Network and Service Management (CNSM 2023), Niagara Falls, Canada, Oct. 30 – Nov. 2, 2023.
  17. Kyungchan Ko, Sangwoo Ryu, and James Won-Ki Hong, "Enhancing QoE of WebRTC-based Video Conferencing using Deep Reinforcement Learning", 2023 24th Asia-Pacific Network Operations and Management Symposium (APNOMS 2023), Sejong, Korea, Sept. 2023, pp. 195-200.
  18. Changhoon Kang, Jongsoo Woo, and James Won-Ki Hong, "Analyzing the Effect of Observer Node Addition Strategy on Bitcoin Double-Spending Attack Detection Using Graph Neural Network", 2023 24th Asia-Pacific Network Operations and Management Symposium ((APNOMS 2023), Sejong, Korea, Sept. 2023, pp. 160-164.
  19. Minji Choi, Hee-Gon Kim, Jae-Hyoung Yoo, and James Won-Ki Hong, "Network Traffic Prediction and Auto-Scaling of SFC using Temporal Fusion Transformer", 2023 24th Asia-Pacific Network Operations and Management Symposium (APNOMS 2023), Sejong, Korea, Sept. 2023, pp. 131-136.

20. Kyungchan Ko, Taeyeol Jeong, Jongsoo Woo, and James Won-Ki Hong, "Alleviating Crypto Gas War in NFT Launching", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2023), Dubai, United Arab Emirates, 1-5, May 2023.
21. Chaehyeon Lee, Changhoon Kang, Heeju Ko, Jongsoo Woo, and James Won-Ki Hong, "A Comprehensive and Quantitative Evaluation Method for Blockchain Protocols", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2023), Dubai, United Arab Emirates, 1-5, May 2023.
22. Changhoon Kang, Jongsoo Woo, and James Won-Ki Hong, "Bitcoin Double-Spending Attack Detection using Graph Neural Network", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2023), Dubai, United Arab Emirates, 1-5, May 2023.
23. Jeongheon Kim, Minji Choi, Chaehyeon Lee, Jongsoo Woo, James Won-Ki Hong, "Service Applicable Blockchain-based Self-Sovereign Identity Management System", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2023), Dubai, United Arab Emirates, 1-5, May 2023.
24. Wonseok Choi, Jongsoo Woo, and James Won-Ki Hong, "Gas Cost Analysis of Fractional NFT on the Ethereum Blockchain", 1st IEEE International Workshop on Cryptocurrency Exchanges (CryptoEx 2023), Dubai, United Arab Emirates, May. 5, 2023.
25. Nguyen Van Tu, Kyungchan Ko, Sangwoo Ryu, Sangtae Ha, and James Won-Ki Hong, "Muno: Improve Video Conferencing Quality with Deep Reinforcement Learning", 2023 IEEE/IFIP Network Operations and Management Symposium (NOMS 2023), Miami, USA, May 8-12, 2023.
26. Sukhyun Nam, Jae-Hyoung Yoo, and James Won-Ki Hong, "VM Failure Prediction with Log Analysis using BERT-CNN Model", 18th International Conference on Network and Service Management (CNSM 2022), Thessaloniki, Greece, Oct. 31 - Nov. 4, 2022.
27. Khizar Abbas, Jae-Hyoung Yoo, and James Won-Ki Hong, "Adaptive Ensemble Learning-Based Network Resource Workload Prediction for VNF Lifecycle Management", The 23rd Asia-Pacific Network Operations and Management Symposium (APNOMS 2022), Takamatsu, Japan, Sep. 28-30, 2022.
28. Namjin Seo, DongNyeong Heo, Jibum Hong, Heegon Kim, Jae-Hyoung Yoo, James Won-Ki Hong, and Heeyoul Choi, "Updating VNF Deployment with Scaling Actions Using Reinforcement Algorithms", The 23rd Asia-Pacific Network Operations and Management Symposium (APNOMS 2022), Takamatsu, Japan, Sep. 28-30, 2022.
29. KyungChan Ko, Taeyeol Jeong, Jongsoo Woo, and James Won-Ki Hong, "An Analysis of Crypto Gas Wars in Ethereum", The 23rd Asia-Pacific Network Operations and Management Symposium (APNOMS 2022), Takamatsu, Japan, Sep. 28-30, 2022.
30. Sangwoo Ryu, Kyungchan Ko, and James Won-Ki Hong, "Stabilizing Deep Reinforcement Learning Model Training for Video Conferencing", The 23rd Asia-Pacific Network Operations and Management Symposium (APNOMS 2022), Takamatsu, Japan, Sep. 28-30, 2022.
31. Chaehyeon Lee, Changhoon Kang, Wonseok Choi, Jehoon Lee, Myunghun Cha, Jongsoo Woo, and James Won-Ki Hong, "CODE: Blockchain-based Travel Rule Compliance System", The 5th IEEE International Conference on Blockchain (Blockchain 2022), Espoo, Finland, Aug. 22-25, 2022.
32. Chaehyeon Lee, Changhoon Kang, Wonseok Choi, Jehoon Lee, Myunghun Cha, Jongsoo Woo, and James Won-Ki Hong, "CODE: Blockchain-based Travel Rule Compliance System", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2022), Shanghai, China, May. 2-5, 2022.
33. Guntur Dharma Putra, Changhoon Kang, Salil S. Kanhere, and James Won-Ki Hong, "DeTRM: Decentralised Trust and Reputation Management for Blockchain-based Supply Chains", IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2022), Shanghai, China, May. 2-5, 2022.
34. Suman Pandey, Tu Van Nguyen, James Won-Ki Hong, Jae-Hyoung Yoo, "EdgeDQN: Multiple SFC Placement in Edge Computing Environment", 17th International Conference on Network and Service Management (CNSM 2021), Virtual Conference, Oct. 25-29, 2021.
35. Seyeon Jeong, Tu Van Nguyen, Jae-Hyoung Yoo, James Won-Ki Hong, "Proactive Virtual Network

- Function Live Migration using Machine Learning", 17th International Conference on Network and Service Management (CNSM 2021), Izmir, Turkey, Oct. 25-29, 2021.
36. Sukhyun Nam, Jibum Hong, Jae-Hyoung Yoo, James Won-Ki Hong, "Virtual Machine Failure Prediction using Log Analysis," The 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021), Tainan, Taiwan, Sep. 8-10, 2021.
  37. Wonseok Choi, James Won-Ki Hong, "Performance Evaluation of Ethereum Private and Testnet Networks Using Hyperledger Caliper," The 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021), Tainan, Taiwan, Sep. 8-10, 2021.
  38. Sangwoo Ryu, Kyungchan Ko, James Won-Ki Hong, "Performance Analysis of Applying Deep Learning for Virtual Background of WebRTC-Based Video Conferencing System," The 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021), Tainan, Taiwan, Sep. 8-10, 2021.
  39. Jungsu Han, Jeongheon Kim, Jongsoo Woo, James Won-Ki Hong, "Cos-CBDC: Design and Implementation of CBDC on Cosmos Blockchain," The 22nd Asia-Pacific Network Operations and Management Symposium (APNOMS 2021), Tainan, Taiwan, Sep. 8-10, 2021.
  40. Jiyeon Lim, Jae-Hyoung Yoo, James Won-Ki Hong, "Reinforcement Learning based Load Balancing for Data Center Networks", The 7th IEEE International Conference on Network Softwarization (NetSoft 2021), Tokyo, Japan/Virtual Conference, June 28 - July 2, 2021.
  41. Suman Pandey, Jae-Hyoung Yoo, James Won-Ki Hong, "GRU and EdgeQ-Learning based Traffic Prediction and Scaling of SFC", The 7th IEEE International Conference on Network Softwarization (NetSoft 2021), Tokyo, Japan/Virtual Conference, June 28 - July 2, 2021.
  42. Petra Gabriela Petra, Doyoung Lee, Tu Van Nguyen, James Won-Ki Hong, "Machine Learning-Based Auto-Scaler for Video Conferencing Systems", The 7th IEEE International Conference on Network Softwarization (NetSoft 2021), Tokyo, Japan/Virtual Conference, June 28 - July 2, 2021.
  43. Suman Pandey, Mi-Jung Choi, Jae-Hyoung Yoo, James Won-Ki Hong, "Streaming Pattern Based Feature Extraction for Training Neural Network Classifier to Predict Quality of VOD services", The 17th IFIP/IEEE International Symposium on Integrated Network Management (IM 2021), Virtual Conference, May 17-21, 2021.
  44. Hee-Gon Kim, Suhyun Park, Dongnyeong Heo, Stanislav Lange, Heeyoul Choi, Jae-Hyoung Yoo, James Won-Ki Hong, "Graph Neural Network-based Virtual Network Function Deployment Prediction", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  45. Suman Pandey, Jae-Hyoung Yoo, James Won-Ki Hong, "Environment Aware Adaptive Q-Learning to Deploy SFC on Edge Computing", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  46. Jibum Hong, Suhyun Park, Jae-Hyoung Yoo, James Won-Ki Hong, "Machine Learning based SLA-Aware VNF Anomaly Detection for Virtual Network Management", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  47. Doyoung Lee, Jae-Hyoung Yoo, James Won-Ki Hong, "Deep Q-Networks based Auto-scaling for Service Function Chaining", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  48. Tu Van Nguyen, Jae-Hyoung Yoo, James Won-Ki Hong, "Measuring End-to-end Packet Processing Time in Service Function Chaining", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  49. Jiyeon Lim, Sukhyun Nam, Jae-Hyoung Yoo, James Won-Ki Hong, "Best next hop Load Balancing Algorithm with Inband network telemetry", 16th International Conference on Network and Service Management (CNSM 2020), Virtual Conference, Nov. 2-6, 2020.
  50. Sukhyun Nam, Jiyeon Lim, Jae-Hyoung Yoo, James Won-Ki Hong, "Network Anomaly Detection Based on In-band Network Telemetry with RNN", The Fifth International Conference On Consumer Electronics (ICCE-Asia 2020), Seoul, Korea, Nov. 1-3, 2020.
  51. Jibum Hong, Suhyun Park, Jae-Hyoung Yoo, James Won-Ki Hong, "A Machine Learning based SLA-Aware VNF Anomaly Detection Method in Virtual Networks", The 11th International Conference on

- ICT Convergence (ICTC 2020), Jeju, Korea, Oct. 21-23, 2020.
52. Doyoung Lee, Jae-Hyoung Yoo, James Won-Ki Hong, "Q-learning Based Service Function Chaining Using VNF Resource-aware Reward Model", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  53. Suhyun Park, Hee-Gon Kim, Jibum Hong, Stanislav Langey, Jae-Hyoung Yoo, James Won-Ki Hong, "Machine Learning-based Optimal VNF Deployment", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  54. Hee-Gon Kim, Suhyun Park, Stanislav Langey, Doyoung Lee, Dongnyeong Heo, Heeyoul Choi, Jae-Hyoung Yoo, James Won-Ki Hong, "Graph Neural Network-based Virtual Network Function Management", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020 (Student Paper Award)
  55. KyungChan Ko, Changhoon Kang, Youngbok Park, Jongsoo Woo, James Won-Ki Hong, "Towards Blockchain-based Stainless Steel Tracking", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  56. Tu Van Nguyen, Jae-Hyoung Yoo, James Won-Ki Hong, "Real-time Monitoring of Packet Processing Time for Virtual Network Functions", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  57. Suman Pandey, James Won-Ki Hong, Jae-Hyoung Yoo, "Q-Learning Based SFC Deployment on Edge Computing Environment", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  58. Jungsu Han, Jongsoo Woo, James Won-Ki Hong, "Oversampling Techniques for Detecting Bitcoin Illegal Transaction", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  59. Jiyeon Lim, Sukhyun Nam, Jae-Hyoung Yoo, James Won-Ki Hong, "Load Balancing Algorithm with Programmable Switch", The 21st Asia-Pacific Network Operations and Management Symposium (APNOMS 2020), Daegu, Korea, Sep. 23-25, 2020
  60. Chaehyeon Lee, Sajan Maharjan, Kyungchan Ko, Jongsoo Woo, James Won-Ki Hong, "Machine Learning based Bitcoin Address Classification", 2020 International Conference on Blockchain and Trustworthy Systems (BlockSys'2020), Dari, China, Aug. 6-7, 2020.
  61. Changhoon Kang, Chaehyeon Lee, Kyungchan Ko, Jongsoo Woo, James Won-Ki Hong, "De-Anonymization of the Bitcoin Network Using Address Clustering", 2020 International Conference on Blockchain and Trustworthy Systems (BlockSys'2020), Dari, China, Aug. 6-7, 2020.
  62. Chaehyeon Lee, Sajan Maharjan, Kyungchan Ko and James Won-Ki Hong, "Toward Detecting Illegal Transactions on Bitcoin using Machine-Learning Methods", 2019 International Conference on Blockchain and Trustworthy Systems (BlockSys'2019), Guangzhou, China, Dec. 7-8, 2019.
  63. Kyungchan Ko, Chaehyeon Lee, James Won-Ki Hong, Sajan Maharjan and Taeyeol Jeong, "Prediction of Bitcoin Transactions Included in the Next Block", 2019 International Conference on Blockchain and Trustworthy Systems (BlockSys'2019), Guangzhou, China, Dec. 7-8, 2019.
  64. Tu Van Nguyen, Jae-Hyoung Yoo, James W. Hong, "Building Hybrid Virtual Network Functions with eXpress Data Path", 15th International Conference on Network and Service Management (CNSM 2019), Halifax, Canada, Oct. 21-25, 2019.
  65. Stanislav Lange, Heegon Kim, Seyeon Jeong, Heeyoul Choi, Jae-Hyoung Yoo, James W. Hong, "Predicting VNF Deployment Decisions under Dynamically Changing Network Conditions", 15th International Conference on Network and Service Management (CNSM 2019), Halifax, Canada, Oct. 21-25, 2019.
  66. Seyeon Jeong, Heegon Kim, Jae-Hyoung Yoo, James W. Hong, "Machine Learning Based Link State Aware Service Function Chaining", The 20th Asia-Pacific Network Operations and Management Symposium (APNOMS 2019), Matsue, Japan, Sep. 18-20, 2019.
  67. Tu Van Nguyen, Jae-Hyoung Yoo, James W. Hong, "eVNF - Hybrid Virtual Network Functions with Linux eXpress Data Path", The 20th Asia-Pacific Network Operations and Management Symposium (APNOMS 2019), Matsue, Japan, Sep. 18-20, 2019.
  68. Jibum Hong, Woojoong Kim, Jae-Hyoung Yoo, James W. Hong, "Design and Implementation of

- Container-based M-CORD Monitoring System", The 20th Asia-Pacific Network Operations and Management Symposium (APNOMS 2019), Matsue, Japan, Sep. 18-20, 2019.
69. Stanislav Lange, Heegon Kim, Seyeon Jeong, Heeyoul Choi, Jae-Hyoung Yoo, James W. Hong, "Machine Learning-based Prediction of VNF Deployment Decisions in Dynamic Networks", The 20th Asia-Pacific Network Operations and Management Symposium (APNOMS 2019), Matsue, Japan, Sep. 18-20, 2019.
  70. Heegon Kim, Seyeon Jeong, Doyoung Lee, Heeyoul Choi, Jae-Hyoung Yoo, James W. Hong, "A Deep Learning Approach to VNF Resource Prediction using Correlation between VNFs", 2nd International Workshop on Emerging Trends in Softwarized Networks (ETSN 2019), Paris, France, June 28, 2019.
  71. Heegon Kim, Doyoung Lee, Seyeon Jeong, Heeyoul Choi, Jae-Hyoung Yoo, James W. Hong, "A Machine Learning-based Method for Virtual Network Function Resource Demand Prediction", 5th IEEE Conference on Network Softwarization (Netsoft 2019), Paris, France, June 24-28, 2019.
  72. Seyeon Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "Design and Implementation of Virtual TAP for SDN-based OpenStack networking", 16th IFIP/IEEE International Symposium on Integrated Network Management (IM 2019), Washington DC, USA, Apr. 8-12, 2019, pp. 233-241.
  73. Jibum Hong, Seyeon Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "Design and Implementation of eBPF-based Virtual TAP for Inter-VM Traffic Monitoring", 1st International Workshop on High-Precision Networks Operations and Control (HiPNet 2018), Rome, Italy, Nov. 9, 2018, pp. 402-407.
  74. Nguyen Van Tu, Jonghwan Hyun, Ga Yeon Kim, Jae-Hyoung Yoo, James Won-Ki Hong, "INTCollector: A High-performance Collector for In-band Network Telemetry", 14th International Conference on Network and Service Management (CNSM 2018), Rome, Italy, Nov.5-9, 2018, pp. 10-18.
  75. Kyunghan Ko, Chaehyeon Lee, Taeyeol Jeong and James Won-Ki Hong, "Design of RPC-based Blockchain Monitoring Agent", The 9th International Conference on Information and Communication Technology Convergence (ICTC 2018), Jeju, Korea, Oct. 17-19, 2018.
  76. Junemuk Choi, Jian Li, James Won-Ki Hong, "Design and Implementation of Fault-Tolerant LISP Mapping System", The 13th International Conference on Future Internet Technologies (CFI 2018), Seoul, Korea, June 20-22, 2018, Article No. 3.
  77. Jonghwan Hyun, Tu Van Nguyen, James Won-Ki Hong, "Towards Knowledge-Defined Networking using In-band Network Telemetry", 16th IEEE/IFIP Network Operations and Management Symposium (NOMS 2018), Taipei, Taiwan, April 23-27, 2018, pp. 1-7.
  78. Seyeon Jeong, Doyoung Lee, James Won-Ki Hong, "OpenFlow-based Virtual TAP using Open vSwitch and DPDK", 16th IEEE/IFIP Network Operations and Management Symposium (NOMS 2018), Taipei, Taiwan, April 23-27, 2018.
  79. Woojoong Kim, James Won-Ki Hong, Young-Joo Su, "Live Distributed Controller Migration for Software-Defined Data Center Networks", 16th IEEE/IFIP Network Operations and Management Symposium (NOMS 2018), Taipei, Taiwan, April 23-27, 2018.
  80. Doyoung Lee, Yoonseon Han, James Won-Ki Hong, "Design of Virtual Gateway in Virtual Software Defined Networks", 4th International Workshop on Management of SDN and NFV Systems (ManSDN/NFV 2017), Tokyo, Japan, Nov. 26, 2017.
  81. Tu Van Nguyen, Kyunghan Ko, James Won-Ki Hong, "Architecture for Building Hybrid Kernel-User Space Virtual Network Functions", 4th International Workshop on Management of SDN and NFV Systems (ManSDN/NFV 2017), Tokyo, Japan, Nov. 26, 2017.
  82. Jonghwan Hyun, Youngjoon Won, Kenjiro Cho, Romain Fontugne, Jaeyoon Chung, James Won-Ki Hong, "High-end LTE Service Evolution in Korea: 4 Years of Nationwide Mobile Network Measurements", 13th International Conference on Network and Service Management (CNSM 2017), Tokyo, Japan, Nov.26-30, 2017.
  83. Taeyeol Jeong, Jaeyoon Chung, James Won-Ki Hong, Sangtae Ha, "Towards a distributed computing model for fog", Fog World Congress (FWC 2017), Santa Clara, CA, USA, Oct.30-Nov.1, 2017. (Accepted to appear)
  84. Doyoung Lee, Seyeon Jeong, James Won-Ki Hong, "OpenAPI-based Message Router for Mashup

- Service Development", 19th Asia-Pacific Network Operations and Management Symposium (APNOMS 2017), Seoul, Korea, Sep. 27-29, 2017. (Best Paper Award)
85. Tu Nguyen, Jonghwan Hyun, James Won-Ki Hong, "Towards ONOS-based SDN Monitoring using In-band Network Telemetry", 19th Asia-Pacific Network Operations and Management Symposium (APNOMS 2017), Seoul, Korea, Sep. 27-29, 2017.
  86. Seyeon Jeong, Doyoung Lee, Jonghwan Hyun, Jian Li, James Won-Ki Hong, "Application-aware Traffic Engineering in Software-Defined Network", 19th Asia-Pacific Network Operations and Management Symposium (APNOMS 2017), Seoul, Korea, Sep. 27-29, 2017.
  87. Dongho Son, Doyoung Lee, Taeyeol Jeong, James Won-Ki Hong, "A Hybrid Live Streaming Model for a Reliable Service", 19th Asia-Pacific Network Operations and Management Symposium (APNOMS 2017), Seoul, Korea, Sep. 27-29, 2017.
  88. Jonghwan Hyun, James Won-Ki Hong, "Knowledge-Defined Networking using In-band Network Telemetry", 19th Asia-Pacific Network Operations and Management Symposium (APNOMS 2017), Seoul, Korea, Sep. 27-29, 2017.
  89. Vanesco A. J. Boehm, Jong Kim, James Won-Ki Hong, "Holistic Tracking of Products on the Blockchain using NFC and Verified Users", 18th World Conference on Information Security Applications (WISA 2017), Jeju, Korea, Aug. 24-26, 2017.
  90. Kyungchan Ko, Dongho Son, Jonghwan Hyun, Jian Li, Yoonseon Han, James Won-Ki Hong, "Dynamic Failover for SDN-based Virtual Networks", 3rd IEEE Conference on Network Softwarization (NetSoft 2017), Bologna, Italy, July 3-7, 2017, pp. 1-5.
  91. Yoonseon Han, Jian Li, Doan Hoang, Jae-Hyoung Yoo, James Won-Ki Hong, "An Intent-based Network Virtualization Platform for SDN", 3rd International Workshop on Management of SDN and NFV Systems (ManSDN/NFV 2016), Montreal, Canada, Nov. 4, 2016 (IITP support)
  92. Jonghwan Hyun, Youngjoon Won, David Sang-Chul Nahm, James Won-Ki Hong, "Measuring Auto Switch Between Wi-Fi and Mobile Data Networks in an Urban Area", 12th International Conference on Network and Service Management, Montreal (CNSM), Quebec, Canada, Oct. 31 - Nov. 4, 2016.
  93. Doyoung Lee, Seyeon Jeong, Taeyeol Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "ICBMS SM: A Smart Mediator for Mashup Service Development", 18th Asia-Pacific Network Operations and Management Symposium (APNOMS 2016), Kanazawa, Japan, Oct. 5-7, 2016.
  94. Seyeon Jeong, Doyoung Lee, Junemuk Choi, Jian Li, James Won-Ki Hong, "Application-aware Traffic Management for OpenFlow Networks", 18th Asia-Pacific Network Operations and Management Symposium (APNOMS 2016), Kanazawa, Japan, Oct. 5-7, 2016.
  95. Yoonseon Han, Seungho Ryu, Young-Joo Suh, James Won-Ki Hong, "Design and Implementation of LISP Controller in ONOS", IEEE Workshop Open-Source Software Networking (OSSN), Seoul, Korea, June 6, 2016, pp. 417-422.
  96. Woojoong Kim, Jian Li, James Won-Ki Hong, Young-Joo Suh, "OFMon: OpenFlow Monitoring System in ONOS Controllers", IEEE Workshop n Open-Source Software Networking (OSSN), Seoul, Korea, June 6, 2016, pp. 397-402.
  97. Jonghwan Hyun, Jae-Hyoung Yoo, James Won-Ki Hong, "Measurement and Analysis of Application-Level Crowd-Sourced LTE and LTE-A Networks", 2nd IEEE Conference on Network Softwarization (NetSoft 2016), Seoul, Korea, June 6-10, 2016, pp. 269-276.
  98. Yoonseon Han, Taeyeol Jeong, Jae-Hyoung Yoo, James Won-Ki Hong, "FLAME: Flow Level Traffic Matrix Estimation using Poisson Shot-Noise Process for SDN", 2nd IEEE Conference on Network Softwarization (NetSoft 2016), Seoul, Korea, June 6-10, 2016, pp. 102-106.
  99. Woojoong Kim, Seungho Ryu, and James Won-Ki Hong, Young-Joo Suh, "WLANMan: a cloud-based wireless LAN management system in ONOS controllers", in 2016 IEEE Conference on Computer Communications Workshops (INFO- COM WKSHPS): Student Activities (INFOCOM'16 Student Activities), San Francisco, USA, Apr. 2016, pp. 774-775.
  100. Yoonseon Han, Jonghwan Hyun, and James Won-Ki Hong, "Graph abstraction based virtual network management framework for SDN", in 2016 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS): Student Activities (INFOCOM'16 Student Activities), San

- Francisco, USA, Apr. 2016, pp. 884–885.
101. Jonghwan Hyun, Youngjoon Won, Eunji Kim, Jae-Hyoung Yoo and James Won-Ki Hong, "Is LTE-Advanced Really Advanced?", 15th IEEE/IFIP Network Operations and Management Symposium (NOMS 2016), Istanbul, Turkey, April 25-29, 2016, pp. 703-707.
  102. Yoonseon Han, Jonghwan Hyun, Taeyeol Jeong, Jae-Hyoung Yoo and James Won-Ki Hong, "A smart home control system based on context and human speech", 2016 18th International Conference on Advanced Communication Technology (ICACT), Pyeongchang Kwangwoon Do, South Korea, Jan.31-Feb.3, 2016, pp. 1-2.
  103. Jian Li, Jae-Hyoung Yoo and James Won-Ki Hong, "CPMan: Adaptive Control Plane Management for Software-Defined Networks", IEEE Conference on Network Function Virtualization & Software Defined Networks (NFV&SDN 2015), San Francisco, USA, Nov. 18-21, 2015.
  104. Jonghwan Hyun, Jian Li, Hwankuk Kim, Jae-Hyoung Yoo and James Won-Ki Hong, "IPv4 and IPv6 Performance Comparison in IPv6 LTE Network", 17th Asia-Pacific Network Operations and Management Symposium (APNOMS 2015), Pusan, Korea, Aug. 19-21, 2015. (KISA Support)
  105. Jian Li, Jae-Hyoung Yoo and James Won-Ki Hong, "PID-based Adaptive Control Plane Management Method for Software-Defined Networks", 17th Asia-Pacific Network Operations and Management Symposium (APNOMS 2015), Pusan, Korea, Aug. 19-21, 2015.
  106. Jae Yoon Chung, Carlee Joe-Wong, Sangtae Ha, James Won-Ki Hong, and Mung Chiang, "CYRUS: Towards Client-Defined Cloud Storage", ACM EuroSys, Bordeaux, France, April 21-24, 2015.
  107. Jian Li, Jin Xiao, James Won-Ki Hong and Raouf Boutata, "FSM-based Wi-Fi Power Estimation Method for Smart Devices", 14th IFIP/IEEE International Symposium on Integrated Network Management (IM 2015), Ottawa, Canada, May 11-15, 2015.
  108. Yoonseon Han, Jae-Hyoung Yoo and James Won-Ki Hong, "Poisson Shot-Noise Process Based Flow-Level Traffic Matrix Generation for Data Center Networks", 14th IFIP/IEEE International Symposium on Integrated Network Management (IM 2015), Ottawa, Canada, May 11-15, 2015.
  109. Jonghwan Hyun, Jian Li, ChaeTae Im, Jae-Hyoung Yoo and James Won-Ki Hong, "A High Performance VoLTE Traffic Classification Method using HTCCondor", 14th IFIP/IEEE International Symposium on Integrated Network Management (IM 2015), Ottawa, Canada, May 11-15, 2015.
  110. Taeyeol Jeong, Jian Li, Jonghwan Hyun, Jae-Hyoung Yoo and James Won-Ki Hong, "Experience on the Development of LISP-enabled Services: an ISP Perspective", 1st IEEE Conference on Network Softwarization (NetSoft 2015), UCL, UK, April 13-17, 2015. (Best Paper Award)
  111. Yoonseon Han, Jian Li, Jae Yoon Chung, Jae-Hyoung Yoo and James Won-Ki Hong, "SAVE: Energy-Aware Virtual Data Center Embedding and Traffic Engineering using SDN", 1st IEEE Conference on Network Softwarization (NetSoft 2015), UCL, UK, April 13-17, 2015.
  112. Jian Li, Jin Xiao, Heni Azzouz, James Won-Ki Hong and Raouf Boutaba, "PowerGuide: Accurate Wi-Fi Power Estimator for Smart Devices", 16th Asia-Pacific Network Operations and Management Symposium (APNOMS 2014), Hsinchu, Taiwan, Sept. 17-19, 2014. (Best Paper Award)
  113. Jonghwan Hyun, Jian Li, ChaeTae Im, Jae-Hyoung Yoo and James Won-Ki Hong, "A VoLTE Traffic Classification Method in LTE Network", 16th Asia-Pacific Network Operations and Management Symposium (APNOMS 2014), Hsinchu, Taiwan, Sept. 17-19, 2014.
  114. Yoonseon Han, Sin-seok Seo, Jian Li, Jonghwan Hyun, Jae-Hyoung Yoo, James Won-Ki Hong, "Software Defined Networking-based Traffic Engineering for Data Center Networks", 16th Asia-Pacific Network Operations and Management Symposium (APNOMS 2014), Hsinchu, Taiwan, Sept. 17-19, 2014.
  115. Taeyeol Jeong, Sin-seok Seo, Jae Yoon Chung, Bernard Niyonteze, Jae-Hyoung Yoo and James Won-Ki Hong, "Multi-Objective Optimization-based Traffic Engineering for Data Center Networks", 16th Asia-Pacific Network Operations and Management Symposium (APNOMS 2014), Hsinchu, Taiwan, Sept. 17-19, 2014.
  116. Jian Li, JongHwan Hyun, Jae-Hyoung Yoo, Seongbok Baik, James Won-Ki Hong, "Scalable Failover Method for Data Center Networks Using OpenFlow", 6th IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2014), Krakow, Poland, May 5, 2014
  117. Yoonseon Han, Sin-seok Seo, Chan Kyou Hwang, Jae-Hyoung Yoo, James Won-Ki Hong, "Flow-

- Level Traffic Matrix Generation for Various Data Center Networks", 6th IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2014), Krakow, Poland, May 5, 2014
118. Jian Li, Jin Xiao, Huu Nhat Minh Nguyen, James Won-Ki Hong, Raouf Boutaba, "Energy Efficient Wi-Fi Management for Smart Devices", 14th IEEE/IFIP Network Operations and Management Symposium (NOMS 2014), Krakow, Poland, May 5-9, 2014
  119. Taeyeol Jeong, James Won-Ki Hong, "Content-Centric Networking for Telematics Services", 4th International Conference on the Network of Future (NoF 2013), Pohang, Korea, Oct. 23-25, 2013.
  120. Jian Li, Jin Xiao, Huu Nhat Minh Nguyen, James Won-Ki Hong, Raouf Boutaba, "BreezChirp: Energy Efficient Wi-Fi Bandwidth Estimator for Smartphones", 4th International Conference on the Network of Future (NoF 2013), Pohang, Korea, Oct. 23-25, 2013.
  121. Yoonseon Han, Joon-Myung Kang, Sin-seok Seo, Ahmed Mehaoua, and James Won-Ki Hong, "An Energy Efficient User Context Collection Method for Smartphones", 15th Asia-Pacific Network Operations and Management Symposium (APNOMS 2013), Hiroshima, Japan, Sep. 25-27, 2013.
  122. Sin-seok Seo, Joon-Myung Kang, Yoonseon Han, and James Won-Ki Hong, "Analysis and Performance Evaluation of Data Transport Methods in Content-Centric Networking", 15th Asia-Pacific Network Operations and Management Symposium (APNOMS 2013), Hiroshima, Japan, Sep. 25-27, 2013
  123. Sin-seok Seo, Joon-Myung Kang, Alberto Leon-Garcia, Yoonseon Han, and James Won-Ki Hong, "Secure and Efficient Context Data Collection using Content-Centric Networking", in Proc. 3rd IEEE International Workshop on Smart Communication Protocols and Algorithms (SCPA '13), Budapest, Hungary, Jun. 9, 2013.
  124. Sungsu Kim, Sin-seok Seo, Joon-Myung Kang, Guy Pujolle, and James Won-Ki Hong, "Autonomic Resource Allocation for Video Streaming Services in Content Delivery Networks", Global Information Infrastructure and Networking Symposium (GIIS 2012), Chroni, Venezuela, Dec. 17-19, 2012.
  125. Jin Xiao, Jian Li, Raouf Boutaba, and James Won-Ki Hong, "Comfort-Aware Home Energy Management Under Market-Based Demand-Response", 8th International Conference on Network and Service Management (CNSM 2012), Las Vegas, USA, Oct. 22-26, 2012.
  126. Jian Li, Jin Xiao, James Won-Ki Hong and Raouf Boutaba, "Application-Centric Wi-Fi Energy Management on Smartphone", 14th Asia-Pacific Network Operations and Management Symposium (APNOMS 2012), Seoul, Korea, Sep. 25-27, 2012.
  127. Yongfeng Huang, Jin Xiao, James Won-Ki Hong, Ahmed Mehaoua, and Raouf Boutaba, "Event-based Estimation of User Experience for Network Video Streaming", 14th Asia-Pacific Network Operations and Management Symposium (APNOMS 2012), Seoul, Korea, Sep. 25-27, 2012.
  128. Jae Yoon Chung, Jian Li, Yeongrak Choi, and James Won-Ki Hong, "Application Traffic Identification Based on Remote Subnet Grouping", 14th Asia-Pacific Network Operations and Management Symposium (APNOMS 2012), Seoul, Korea, Sep. 25-27, 2012. (Best Paper Award)
  129. Sin-seok Seo, Joon-Myung Kang, Yoonseon Han, and James Won-Ki Hong, "Context Management for User-centric Context-aware Services over Pervasive Networks", 14th Asia-Pacific Network Operations and Management Symposium (APNOMS 2012), Seoul, Korea, Sep. 25-27, 2012.
  130. Dongwoo Kwon, Hongtaek Ju, and James Won-Ki Hong, "DDoS Attack Forecasting System Architecture Using HoneyNet", 14th Asia-Pacific Network Operations and Management Symposium (APNOMS 2012), Seoul, Korea, Sep. 25-27, 2012.
  131. Sungsu Kim, Sin-seok Seo, Joon-Myung Kang, and James Won-Ki Hong, "Autonomic Fault Management based on Cognitive Control Loops" , 2012 IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2012), Maui, Hawaii, USA, April 20, 2012, pp. 1104-1110.
  132. Tachyun Kim, Yeongrak Choi, Seunghee Han, Jae Yoon Chung, Jonghwan Hyun, Jian Li, and James Won-Ki Hong, "Monitoring and Detecting Abnormal Behavior in Mobile Cloud Infrastructure", 2012 IEEE/IFIP International Workshop on Cloud Management (CloudMan 2012), Maui, Hawaii, USA, April 20, 2012, pp. 1303-1310.
  133. Arum Kwon, Jin Xiao, Sin-seok Seo, James Won-Ki Hong and Raouf Boutaba, "The Effect of

- Network Performance on Perceived Video Quality and User Experience in H.264/AVC" , 13th IEEE/IFIP Network Operations and Management Symposium (NOMS 2012), Miniconference, Maui, Hawaii, USA, April 16-20, 2012, pp. 1061-1067.
134. Yeongrak Choi, Jae Yoon Chung, Byungchul Park and James Won-Ki Hong, "Automated Classifier Generation for Application-Level Mobile Traffic Identification" , 13th IEEE/IFIP Network Operations and Management Symposium (NOMS 2012), Miniconference, Maui, Hawaii, USA, April 16-20, 2012, pp. 1075-1081.
  135. Sin-seok Seo, Young J. Won, and James Won-Ki Hong, "Witnessing Distributed Denial-of-Service Traffic from an Attacker's Network," in Proc. 7th International Conference on Network and Service Management (CNSM 2011), Paris, France, Oct. 24-28, 2011.
  136. Do Quoc Le, Taeyoel Jeong, H. Eduardo Roman, and James Won-Ki Hong, "Traffic Dispersion Graph Based Anomaly Detection," in Proc. the Second Symposium on Information and Communication Technology (SoICT), Hanoi, Vietnam, Oct. 13-14, 2011, pp. 36-41.
  137. Joon-Myung Kang, Sin-seok Seo, and James Won-Ki Hong, "Usage Pattern Analysis of Smartphones," 13th Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sep. 21-23, 2011. (Best Paper Award)
  138. Suman Pandey, Mi-Jung Choi, Myung-Sup Kim, and James Won-Ki Hong, "Towards Management of Machine to Machine Network," 13th Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sep. 21-23, 2011.
  139. Seong-Cheol Hong, Hong-Taek Ju, and James Won-Ki Hong, "IP Prefix Hijacking Detection Using the Collection of AS Characteristics," 13th Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sep. 21-23, 2011.
  140. Jae Yoon Chung, Yeongrak Choi, Byungchul Park, and James Won-Ki Hong, "Measurement Analysis of Mobile Traffic in Enterprise Networks," 13th Asia-Pacific Network Operations and Management Symposium (APNOMS 2011), Taipei, Taiwan, Sep. 21-23, 2011.
  141. Sin-seok Seo, Arum Kwon, Joon-Myung Kang, John Strassner, and James Won-Ki Hong, "PYP: Design and Implementation of a Context-Aware Configuration Manager for Smartphones," 1st International Workshop on Smart Mobile Applications (SmartApps'11), San Francisco, CA, USA, June 12-15, 2011.
  142. Joon-Myung Kang and James Won-Ki Hong, "Autonomic Management for Personalized Handover Decisions in Heterogeneous Wireless Networks," 5th International Conference on Autonomous Infrastructure, Management and Security (AIMS 2011), PhD student workshop, LNCS 6734, Nancy, France, June 13-17, 2011, pp. 57-60.
  143. Hui Wang, Hyeok-soo Choi, Nazim Agoulmine, M. Jamal Deen and James Won-Ki Hong, Information-based Energy Efficient Sensor Selection in Wireless Body Area Networks, IEEE International Conference on Communications - Symposium on Selected Areas in Communications e-Health Track (ICC2011), Kyoto, Japan (5-9 June 2011).
  144. Sin-seok Seo, Arum Kwon, Joon-Myung Kang, and James Won-Ki Hong, "OSLAM: Towards Ontology-based SLA Management for IPTV Services," IFIP/IEEE International Workshop on Management of the Future Internet (ManFI 2011), Dublin, Ireland, May 27. 2011.
  145. Sin-seok Seo, Joon-Myung Kang, Nazim Agoulmine, John Strassner, and James Won-Ki Hong, "FAST: A Fuzzy-based Adaptive Scheduling Technique for IEEE 802.16 Networks," 12th IFIP/IEEE International Symposium on Integrated Network Management (IM 2011), Dublin, Ireland, May 23-27, 2011.
  146. Sungsu Kim, John Strassner, and James Won-Ki Hong, "Semantic Overlay Network for Peer-to-Peer Hybrid Information Search and Retrieval," 12th IFIP/IEEE International Symposium on Integrated Network Management (IM 2011), Dublin, Ireland, May 23-27, 2011.
  147. Jian Li, Jae Yoon Chung, Jin Xiao, James Won-Ki Hong, and Raouf Boutaba. "On The Design and Implementation of a Home Energy Management System", 6th IEEE International Symposium on Wireless and Pervasive Computing (ISWPC 2011), Hong Kong, China, Feb 23-25, 2011.
  148. Jin Xiao, Jae Yoon Chung, Li Jian, Raouf Boutaba, and James Won-Ki Hong, "Near Optimal Demand-Side Energy Management Under Real-time Demand-Response Pricing", 6th International

- Conference on Network and Service Management (CNSM 2010), Niagara Falls, Canada, Oct. 25-29, 2010.
149. Arum Kwon, Joon-Myung Kang, Sin-seok Seo, Sung-Su Kim, Jae Yoon Chung, John Strassner, and James Won-Ki Hong, "The Design of a Quality of Experience Model for Providing High Quality Multimedia Services", 5th International Workshop on Modelling Autonomic Communication Environments (MACE 2010), Niagara Falls, Canada, Oct. 28, 2010.
  150. Yeongrak Choi, Jian Li, Yoonseon Han, John Strassner and James Won-Ki Hong, "Towards a Context-Aware Information Model for Provisioning & Managing Virtual Resources and Services", 5th International Workshop on Modelling Autonomic Communication Environments (MACE 2010), Niagara Falls, Canada, Oct. 28, 2010.
  151. John Strassner, SungSu Kim, and James Won-Ki Hong, "Semantic Routing for Improved Network Management in the Future Internet", Recent Trends in Wireless and Mobile Networks (WiMo), Vol 84, pages 163-176, Jun. 26, 2010.
  152. Jin Kim, Hyeok-soo Choi, Hui Wang, Nazim Agoulmine, M. Jamal Deen, James Won-Ki Hong, "POSTECH's U-Health Smart Home For Elderly Monitoring and Support", Second International Workshop on Interdisciplinary Research on E-Health Services and Systems (IREHSS 2010), Montreal, Canada, Jun. 14, 2010.
  153. 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.
  154. 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.
  155. 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.
  156. 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.
  157. 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.
  158. 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.
  159. 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.
  160. 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.
  161. 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.
  162. 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.
  163. 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.

164. 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.
165. 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.
166. 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.
167. 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.
168. 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.
169. 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.
170. 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.
171. 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
172. 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.
173. 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.
174. 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.
175. 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.
176. 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
177. 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.
  178. 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.
  179. 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.
  180. 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)
  181. 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)
  182. 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)
  183. 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)
  184. 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.
  185. 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
  186. 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).
  187. Ramy Farha, Myung Sup Kim, Alberto Leon-Garcia, and James Won-Ki Hong, "Toward Autonomic Service Architecture," 5<sup>th</sup> IEEE International Workshop on IP Operations and Management (IPOM 2005), LNCS 3751, Barcelona, Spain, Oct., 2005, pp. 58-67 (SCIE).
  188. 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.

189. 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.
190. 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.
191. 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.
192. 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
193. 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.
194. 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.
195. 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.
196. 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.
197. 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)
198. 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)
199. 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.
200. 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.
201. 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
202. 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)
203. 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)
204. 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.
205. 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.
  206. 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.
  207. 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.
  208. 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.
  209. 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.
  210. 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.
  211. Sook-Hyun Ryu, Jae-Young Kim, and James W. Hong, "Approaches to Support Differentiated Quality of Web Service," QoSIS 2001, LNCS 2156, September 2001, pp. 273-285.
  212. 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.
  213. 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.
  214. 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.
  215. 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
  216. 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.
  217. 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.
  218. 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)
  219. 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 Networkworld + Interop Engineers Conference, Las Vegas, May, 2000.

220. 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 (ICTACT 2000), Muju Korea, February 16-18, 2000, pp.624-629.
221. 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 (ICTACT 2000), Muju Korea, February 16-18, 2000, pp.137-141.
222. 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.
223. 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.
224. 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.
225. 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.
226. 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.
227. 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.
228. 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.
229. 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.
230. 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.
231. 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.
232. 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.
233. 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.
234. 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.
235. 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.
236. 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.
237. 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.
  238. 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.
  239. 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.
  240. 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.
  241. 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.
  242. 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.
  243. 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.
  244. 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.
  245. 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.
  246. 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.
  247. 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.
  248. 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.
  249. 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.
  250. 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.
  251. 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.
  252. 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.
  253. 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.
  254. 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.
255. 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.
  256. 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.
  257. 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.
  258. 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.
  259. 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.
  260. 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.
  261. 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.
  262. 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.
  263. 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.
  264. 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.
  265. 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.
  266. 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.
  267. 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.
  268. 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.
  269. 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.
  270. 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.
  271. 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.
  272. 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.
273. 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.
  274. 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.
  275. 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.
  276. 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.
  277. 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. Patents**

1. James Won-Ki Hong, Jae-Hyoung Yoo, Jibum Hong, " TRAFFIC CATEGORIZATION METHOD AND DEVICE," Patent No.:US 12,463,908 B2 (17/768,837), USA, 2025.11.04(2022.04.13) (Applicant: POSTECH)
2. James Won-Ki Hong, Jae-Hyoung Yoo, Doyoung Lee and Heegon Kim, " Method of Predicting Demand of Virtual Network Function Resources to Which Machine Learning is Applied," Patent No.:US 11,341,372 B2 (16/691,505), USA, 2022.5.24 (2019.11.21) (Applicant: POSTECH)
3. James Won-Ki Hong, Jae-Hyoung Yoo, Heegon Kim, " METHOD AND APPARATUS FOR GRAPH NEURAL NETWORK BASED VIRTUAL NETWORK MANAGEMENT," Patent No.: 17/685381, 2022.03.00 (Applicant: POSTECH)
4. James Won-Ki Hong, Jae-Hyoung Yoo, Jibum Hong, Suhyun Park, " Machine Learning-Based VNF Anomaly Detection System and Method for Virtual Network Management," Patent No.: 17/480070, 2021.09.20 (Applicant: POSTECH)
5. James Won-Ki Hong, Jae-Hyoung Yoo, Jibum Hong, " Method for Classifying Traffic and Apparatus Thereof," Patent No.: PCT/KR2020/004905, 2020.04.10 (Applicant: POSTECH)
6. James Won-Ki Hong, Junemuk Choi, and Jian Li, "SDN Controller based on Software Defined Network, System and Method for Traffic Engineering Using SDN Controller," Patent No.: PCT/KR2018/012584, PCT, 2018.10.23 (Applicant: POSTECH)
7. James Won-Ki Hong, Jian Li, Jin Xiao, Raouf Boutaba, "ENERGY-EFFICIENT METHOD AND APPARATUS FOR APPLICATION-AWARE PACKET TRANSMISSION," Patent No.: US 9,832,282 B2 (14/487,629), USA, 2017.11.28(2015.06.18) (Applicant: POSTECH)
8. James Won-Ki Hong, Sung-Su Kim, and Young-Joon Won, "AUTONOMIC NETWORK MANAGEMENT SYSTEM," Patent No.: EP 2 530 872 B1 (11734829.2), UK, 2016.03.23(2011.01.05) (Applicant: POSTECH)
9. James Won-Ki Hong, Sung-Su Kim, and Young-Joon Won, "AUTONOMIC NETWORK MANAGEMENT SYSTEM," Patent No.: US 9,019,817 B2 (13/574,255), USA, 2015.04.28(2011.07.28) (Applicant: POSTECH)
10. James Won-Ki Hong, Jian Li, Jin Xiao, and Raouf Boutaba, " Energy-Efficient Method and Apparatus for Application-aware Packet Transmission," Patent No.: 14487629, USA, 2014.09.16 (Applicant: POSTECH)
11. James Won-Ki Hong, Sin-seok Seo, Joon-Myung Kang, and Yoonseon Han " Apparatus for Managing User-Centric Context and Method Thereof," Patent No.: 2013-162423, China, 2013.08.26 (Applicant: POSTECH)

12. James Won-Ki Hong, Sin-seok Seo, Joon-Myung Kang, and Yoonseon Han" Apparatus for Managing User-Centric Context and Method Thereof," Patent No.: 13971577, USA, 2013.08.20 (Applicant: POSTECH)
13. James Won-Ki Hong, Sin-seok Seo, Joon-Myung Kang, and Yoonseon Han" Apparatus for Managing User-Centric Context and Method Thereof," Patent No.: 2013-162423, Japan, 2013.08.05 (Applicant: POSTECH)
14. James Won-Ki Hong, Sin-seok Seo, Joon-Myung Kang, and Yoonseon Han" Apparatus for Managing User-Centric Context and Method Thereof," Patent No.: EP13178596.6, Europe, 2013.07.30 (Applicant: POSTECH)
15. 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.:5175242(2009-118340), Japan, 2013.01.11(2009.05.26) (Applicant: POSTECH)
16. 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.: US 8,204,552 B2 (12/453,141), USA, 2012.06.19(2009.05.27) (Applicant: POSTECH)
17. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.: 4981844(2009-118341), JAPAN, , 2012.04.27(2009.05.15) (Applicant: POSTECH)
18. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.: 8,089,368(12/453,142), USA, 2012.01.03(2009.05.17) (Applicant: POSTECH)
19. 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.: 7,933,248(11/907,547), USA, 2011.04.26(2007.10.15) (Applicant: POSTECH) (2011.01.19)
20. James Won-Ki Hong and Joon-Myung Kang, "Method and Apparatus for Detecting Abnormal Power Consumption of a Battery in Mobile Devices," Patent No.: 2141898(09005896.7), Europe (EPO), 2011.03.02 (2009.05.05) (Applicant: POSTECH) - UK, Germany, France
21. 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)
22. James Won-Ki Hong, Sungsu Kim, and Young J. Won" Autonomic Network Management System," Patent No.: 11734829.2, EP, 2012.07.24 (Applicant: POSTECH)
23. James Won-Ki Hong and Joon-Myung Kang, "Method for Developing Software to Support Autonomic Management of Software Systems based on a Feature-oriented Approach," Patent No.: 2011-086539, Japan, 2011.04.08 (Applicant: POSTECH)
24. James Won-Ki Hong and Joon-Myung Kang, "Method of Providing Autonomic Management of Software System, Recording Medium Storing Program for Performing the Same, and System Having Function of Autonomic Software Management," Patent No.: 11160976.4, EPO 2011.04.04 (Applicant: POSTECH)
25. James Won-Ki Hong and Joon-Myung Kang, "Method for Developing Software to Support Autonomic Management of Software Systems based on a Feature-oriented Approach," Patent No.: 13/072,970, USA, 2011.03.28 (Applicant: POSTECH)
26. John Strassner, James Won-Ki Hong, " Method and Apparatus for Realizing a Policy-based Context-aware, Preferences and Profile Model for Communication Devices," Patent No.: 2010-218889, Japan, 2010.09.29 (Applicant: POSTECH)
27. John Strassner, James Won-Ki Hong, " Method and Apparatus for Realizing a Policy-based Context-aware, Preferences and Profile Model for Communication Devices", Patent No.: 10009253.5, EPO, 2010.09.29 (Applicant: POSTECH)
28. John Strassner, James Won-Ki Hong, "Method and Apparatus for Realizing a Policy-based Context-aware, Preferences and Profile Model for Communication Devices", Patent No.: 12/878,244, USA, 2010.09.29 (Applicant: POSTECH)
29. 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)
30. 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)
  31. 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)
  32. 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)
  33. 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) (FILED)
  34. 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, 2009.05.17 (Applicant: POSTECH) (FILED)
  35. 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)
  36. 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)
  37. 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)
  38. 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 (Applicant: POSTECH)
  39. 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: KEPSCO)
  40. 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)
  41. 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)
  42. 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)
  1. 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)
  43. 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)
  44. 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)
  45. 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)
  46. 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)
47. 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)
  48. James Won-Ki Hong, Young J. Won, and Jae Yoon Chung, "Signature Generation Apparatus for
  49. 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, "R&D Activities on Blockchain and Cryptocurrency at CCBR, POSTECH", School of Applied Digital Technology, Mae Fah Luang University, Chiang Rai, Thailand, January. 23, 2026 (Invited Seminar)
2. James Won-Ki Hong, "Blockchain and Stablecoins", International College of Digital Innovation (ICDI), Chiangmai University, Chiang Mai, Thailand, January. 16, 2026 (Invited Seminar)
3. James Won-Ki Hong, "Blockchain and Stablecoins", aSSIST, Seoul, Korea, January. 14, 2026 (Invited Seminar)
4. James Won-Ki Hong, "LLM-Driven Innovations in Network Management: Automating Configuration and Deployment", Keynote, APNOMS 2025, Kaohsiung, Taiwan, Sept.25, 2025
5. James Won-Ki Hong, "Blockchain and Cryptocurrency", Invited seminar by Democratic Party of Korea, April 15, 2025.
6. James Won-Ki Hong, "AI-Driven Innovations: Leveraging Large Language Models for Network Management, Spine Pain Detection, and Academic Excellence", IEEE International Conference on Smart Communities, Doha, Qatar, Dec. 4, 2024 (Keynote).
7. James Won-Ki Hong, "Leveraging Large Language Models for Network Management, Spine Pain Detection, and Academic Excellence", UNSW, Sydney, Australia, Nov. 27, 2024 (Invited Seminar).
8. James Won-Ki Hong, "Leveraging Large Language Models for Network Management, Spine Pain Detection, and Academic Excellence", Victoria University of Wellington, Wellington, New Zealand, Nov. 15, 2024 (Invited Seminar).
9. James Won-Ki Hong, "Blockchain and Web 3.0: Past, Present & Future", HSN 2024, Jeju, Korea, Jan. 24, 2024 (Keynote).
10. James Won-Ki Hong, "Blockchain Theory and Applications", Asian Institute of Technology, Thailand, January 18, 2023 (Invited Seminar).
11. Won-Ki Hong, "Blockchain Technology and Applications", Daegu Science High School, May 27, 2022 (Invited Seminar)
12. James Won-Ki Hong, "SDN/NFV Open Networking", Naresuan University, Thailand, Mar. 22, 2022, (Invited Seminar).
13. James Won-Ki Hong, "AI-Based Network Management", University of Zurich, Switzerland, Nov. 17, 2021, (Invited Seminar).
14. James Won-Ki Hong, "AI-Based Network Management", ITRC Workshop, May 27, 2021, (Invited Seminar).
15. James Won-Ki Hong, "Recent Trends in Blockchain Technology and Business Applications", POSCO, Seoul, Korea, April 9, 2020. (Invited Industry Seminar)
16. James Won-Ki Hong, "Blockchain Research at POSTECH", Hochimin University of Science and Technology, Vietnam, January 17, 2020. (Invited Seminar)
17. James Won-Ki Hong, "Blockchain Research at POSTECH", Hanoi University of Science and Technology, Vietnam, January 16, 2020. (Invited Seminar)
18. James Won-Ki Hong, "Blockchain Monitoring and Analysis", IEEE ICC 2019, Shanghai, China, May 21, 2019. (Invited Industry Seminar)
19. James Won-Ki Hong, "Softwarization of the Internet", APRICOT 2019, Feb.28, 2019, Daejeon, Korea (Keynote Speech)
20. James Won-Ki Hong, "Towards Telco Network Virtualization & Applications", IMCOM 2018, Langkwai,

- Malaysia, Jan. 5, 2018 (Keynote)
21. James Won-Ki Hong, "Moving Frontiers in Network Softwarization", NetSoft 2017 Distinguished Experts Panel, Bologna, Italy, July 6, 2017
  22. James Won-Ki Hong, "SDN/NFV & Open Networking Ecosystem", CyberC 2016 SDN Summit, Chengdu, China, Oct. 13, 2016 (Keynote Speech)
  23. James Won-Ki Hong, "SDN 2.0 for Carrier Networks", The 7th International Conference on Cyber-enabled Distributed Computing and Knowledge Discovery (CyberC 2015), Xian, China, Sep 17, 2015. (Keynote Speech)
  24. James Won-Ki Hong, "Shaping the Future with ICT & IoT", IEEE/CIC International Conference on Communications in China (ICCC 2014), Shanghai, China, Oct. 14, 2014. (Keynote Speech)
  25. James Won-Ki Hong, "Shaping the Future with ICT Convergence", Canada-Korea Conference on Science and Technology (CKC 2014), Niagara Falls, Canada, Aug. 4, 2014. (Keynote Speech)
  26. James Won-Ki Hong, "Shaping the Future with ICT Convergence", Invited talk, Dept. of Software Design and Management, Gachon University, Sungnam, Korea, May. 16, 2014
  27. James Won-Ki Hong, "Shaping the Future with ICT Convergence", Invited talk, Division of International Studies (DIS), Korea University, Seoul, Korea, March. 17, 2014.
  28. James Won-Ki Hong, "Video Traffic Explosion in All-IP Era," Invited talk, CTO Group Meeting at ITU Telecom World 2013, Bangkok Thailand, Nov. 18–20, 2013.
  29. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, Dept. of ECE, Sogang University, Seoul Korea, Nov. 13, 2013
  30. James Won-Ki Hong, "Towards Mobile Video Traffic Optimization", Keynote, 15th Asia-Pacific Network Operations and Management Symposium (APNOMS 2013), Hiroshima Japan, Oct. 27, 2013
  31. James Won-Ki Hong, "Global ICT Convergence Leader: KT's Vision and Strategy", Invited talk, International Presidential Forum for Global Research Universities. Seoul Korea, Oct. 15, 2013.
  32. James Won-Ki Hong, "What does 'Computer Science and Engineering' mean to Telcos?", School of Computer Science and Engineering, Seoul National University, Seoul, Korea, Oct. 10, 2013.
  33. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, School of ECE, Seoul National University, Seoul Korea, Sept. 11, 2013
  34. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, Dept. of ECE, Yonsei University, Seoul Korea, Sept. 24, 2013
  35. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, Dept. of ECE, Univ. of Toronto, Toronto, Canada, May 23, 2013
  36. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, Laboratory for Information and Decision Systems (LIDS), MIT, Cambridge, MA, USA, May 21, 201
  37. James Won-Ki Hong, "Shaping the Future Society with ICT Convergence", Invited talk, Dept. of EE, Princeton Univ., Princeton, NJ, USA, May 20, 2013
  38. James Won-Ki Hong, "The Fall of Telcos and The Rise of Internet Content Providers", Keynote, The 23rd High-Speed Networking, Busan, Korea, Jan. 24, 2013.
  39. James Won-Ki Hong, "What Does Computer Science and Engineering Mean to Today's Telcos?", Keynote, The 13th KOCSEA Symposium, Atlanta GA, Dec. 14, 2012.
  40. James Won-Ki Hong, "Challenges in Today's Telco R&D", Keynote, The 18th Asia-Pacific Conference on Communications 2012 (APCC 2012), Jeju Island, Korea, Oct. 16, 2012
  41. James Won-Ki Hong, "Smartphonomics: Convergence using Smart Phones and Devices", Faculty of IT Convergence and Engineering, Pyongyang University of Science and Technology, Pyongyang, North Korea, October 5, 2011.
  42. James Won-Ki Hong, "Traffic Monitoring & Analysis: Methods, Challenges and Experiences", Invited Talk, Harbin Institute of Technology, Harbin, China, May 12, 2011.
  43. James Won-Ki Hong, "Traffic Monitoring & Analysis: Methods, Challenges and Experiences", Invited Talk, Shanghai Jiao Tong University, Shanghai, China, May 10, 2011
  44. James Won-Ki Hong, "Smartphonomics: Convergence using Smart Phones and Devices," Hochimin City University of Science, Hochimin City, Vietnam, Jan. 10, 2011
  45. James Won-Ki Hong, "Smartphonomics: Convergence using Smart Phones and Devices," Hochimin City

- University of Technology, Hochimin City, Vietnam, Jan. 11, 2011
46. 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.
  47. James Won-Ki Hong, "PLC Network Management Technology," Invited Talk, KERI (Korea Electrotechnology Research Institute), Euwangsi, Korea, March 16, 2007.
  48. 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.
  49. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Globecom, Dallas, USA, Dec 3, 2004
  50. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2004 IEEE Conference on Communications (ICC), Paris, France, June 20, 2004.
  51. 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.
  52. 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.
  53. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Invited Keynote Talk, ICACT 2004, Pheonix Park, Korea, Feb. 9, 2004.
  54. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis: Methods and Applications", Tutorial, 2003 IEEE Globecom, San Francisco, USA, Dec. 5, 2003.
  55. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, HP Labs, Palo Alto, CA, USA, Dec. 4, 2003.
  56. James Won-Ki Hong, "Internet Traffic Monitoring and Analysis using NG-Mon", Seminar, Sprint Labs, Burlingame, CA, USA, Dec. 2, 2003.
  57. 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.
  58. J. Won-Ki Hong, "Traffic Measurement for High-Speed Internet", 2003 ICAT Workshop, Seoul, Korea, April 30, 2003. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Changwon University, Changwon, Korea, May 2, 2003
  59. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", Samsung Electronics, Suwon, Korea, May 13, 2003.
  50. J. Won-Ki Hong, "Internet Traffic Monitoring and Analysis", KT OSS Labs, Daejeon, Korea, July 4, 2003.
  51. J. W. Hong, "Network Monitoring and Analysis for SLA Management", 2002 KNOM Tutorial, June 21, 2002.
  52. 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.
  53. J. W. Hong, "IP Network Traffic Monitoring and Analysis", KT Operations Support Systems (OSS) Lab. Seminar, April 16, 2002.
  54. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APCC 2000, Oct. 30, 2000, Seoul, Korea.
  55. 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.
  56. J. W. Hong, "Recent R&D Activities in Web-based Network and Systems Management", Lucent Bell Labs, Holmdel, New Jersey, USA, January 7, 2000.
  57. 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.
  58. 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.
  59. J. W. Hong, "Policy-based Network Management", NETSECKR 2000, Seoul Korea, May 2000.
  60. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE/IFIP 1999 International Symposium on Integrated Network Management, Boston MA, May 1999.

61. J. W. Hong, "Web-based Network and Systems Management", Tutorial, IEEE International Conference on Communications, June, 1999, Vancouver, Canada.
62. J. W. Hong, "Computer Networking, Internet & Home Networking", Seminar, LG Electronics, Seoul, Korea, October 23, 1999.
63. J. W. Hong, "Internet/Intranet Network Monitoring, Analysis and Reporting using Web Technology", KEPRI, Taejeon, Korea, March 13, 1998.
64. J. W. Hong, "Web-based Enterprise Network Management", Korea Telecom, Taejeon, Korea, April 8, 1998.
65. J. W. Hong, "Web-based Network and Systems Management" Tutorial, APNOMS'98, Sendai Japan, Sept. 1998.
66. J. W. Hong, "Web-based Network Management" Daewoo Telecom, Seoul, December 2, 1998.
67. J. W. Hong, "Web-based Network and Systems Management", Tutorial, APNOMS'97, Seoul, Korea, October 8, 1997.

## 9. Student Supervisions

### A. PhD Thesis

1. Jibum Hong, PhD Thesis  
 "Intent-based Automated NFV Management Methods using Large Language Models"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Dec. 2025.
2. Sukhyun Nam, PhD Thesis  
 "LLM-based AI Agent for Virtual Network Function Deployment"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Aug. 2025.
3. Chaehyeon Lee, PhD Thesis  
 "Blockchain-based Federated Learning with Zero-Knowledge Proofs"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Dec. 2024.
4. Nguyen Van Tu, PhD Thesis  
 "DRAFAS: Dynamic Resource Allocation for AI-native Services"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Dec. 2024.
5. Heegon Kim, PhD Thesis  
 "AI-based NFV Management and Orchestration"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Aug. 2024
6. Kyunchang Ko, PhD Thesis  
 "Bandwidth Estimation and Bitrate Allocation for Enhancing QoS in Video Conferencing Using Deep Reinforcement Learning"  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Feb. 2024
7. Seyeon Jeong, PhD Thesis  
 "Dynamic Service Placement in Edge Computing Environment using Reinforcement Learning-based Live Migration", POSTECH, Pohang, Korea  
 Completed, Aug. 2022.
8. Doyoung Lee, PhD Thesis

- "Auto-scaling of Network Services in Multi-access Edge Computing Environment"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2021
9. Jonghwan Hyun, PhD Thesis  
"End-to-End Latency Measurement in a Multi-access Edge Computing Environment"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2019
10. Taeyeol Jeong, PhD Thesis  
"A Platform for Distributed Fog Computing"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2018
11. Yoonseon Han, PhD Thesis  
"A Framework for Development, Operations, and Management of SDN-based Virtual Networks"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2017
12. Jian Li, PhD Thesis  
"CPMan: Control Plane Management for SDN"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2016
13. Jaeyoon Chung, PhD Thesis  
"A Management Architecture for Client-defined Cloud Storage Services"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2015
14. Sinseok Seo, PhD Thesis  
"Dynamic Traffic Engineering for Improving Energy Efficiency and Network Utilization of Data  
Center Networks"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2014
15. Sungsu Kim, PhD Thesis  
"Cognitive Model-Based Autonomic Fault Management in SDN"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2013
16. Byungchul Park, PhD Thesis  
"Fine-grained Traffic Classification based on Functional Separation"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2012
17. Seong-Cheol Hong, PhD Thesis  
"Network Reachability based IP Prefix Hijacking Detection"  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2012
18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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.

## **B. MS Thesis**

1. Euidong Jeong, MS Thesis

“Topology-Aware Service Function Chain Scheduling using DRL”  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2024

2. Minji Choi, MS Thesis

“Auto Scaling of Service Function Chain based on the predicted network traffic using Temporal  
Fusion Transformer”  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Aug. 2023

3. Jungsoo Han, MS Thesis

“Design and Implementation of Central Bank Digital Currency using Blockchain”  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, Feb. 2022

4. Sukhyun Nam, MS Thesis

“Virtual Machine Failure Prediction using Log Analysis”  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,

- Completed, Feb. 2021
5. Suhyun Park, MS Thesis  
 “Machine Learning-based VNF Deployment”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Feb. 2021
  6. Jiyeon Lim, MS Thesis  
 “Reinforcement learning based load balancing for data center networks”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Feb. 2021
  7. Sajan Maharjan, MS Thesis  
 “Design and Implementation of Blockchain-based Central Bank Digital Currency”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Aug. 2020
  8. Chaehyun Lee, MS Thesis  
 “Machine Learning based Bitcoin Address Classification”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Feb. 2020
  9. Jibum Hong, MS Thesis  
 “A Machine Learning based Anomaly Detection Method for NFV Management”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Feb. 2020
  10. Tu Van Nguyen, MS Thesis  
 “INTCollector: A High-performance Collector for In-band Network Telemetry”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, Aug. 2018
  11. DongHo Son, MS Thesis  
 “Design and Implementation of an Incentive System for Sharing Distributed Computing Resources”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, February 2018
  12. KyungChan Ko, MS Thesis  
 “Design and Implementation of SDN-based Virtual Network Snapshotting”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, February 2018
  13. Seyeon Jeong, MS Thesis  
 “Design and Implementation of Virtual TAP for Software-Defined Networks”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, February 2018
  14. Bernard Niyonteze  
 “Provider-Side VoD Content Delivery Using OpenFlow Multicast”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, August, 2014
  15. Taehyun Kim, MS Thesis  
 “Anomaly Detection in Wireless Body Area Networks”  
 Division of IT Convergence Engineering, POSTECH, Pohang, Korea,  
 Completed, February 2013
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 “Application-Aware Wi-Fi Energy Management on Smart Mobile Devices”  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,

- Completed, August, 2012
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“Correlating Video Quality Metrics to User Experience: an Event-based Approach”  
Division of IT Convergence Engineering, POSTECH, Pohang, Korea,  
Completed, August, 2012
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“Graph-based Detection of Anomalous Network Traffic”  
Division of IT Convergence Engineering, POSTECH, Pohang, Korea,  
Completed, August, 2012
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“The Impact of Network Performance on Perceived Video Quality and User Experience in H.264/AVC”,  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, February, 2012.
  20. Yeongrak Choi, MS Thesis  
“An Automated Classifier Generation System for Application-Level Mobile Traffic Identification”,  
Division of IT Convergence Engineering, POSTECH, Pohang, Korea,  
Completed, August 2011.
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“Energy Efficient Active Sensor Selection Scheme for U-healthcare in WBAN”,  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2010.
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“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.
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“Dimensioning IPTV VoD Services,” Dept. of Computer Science and Engineering, POSTECH,  
Pohang, Korea, Completed, August 2009
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“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.
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“An SNMP-based Integrated Management Method for Heterogeneous Power Line Communication  
Networks,” Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed,  
June 2008.
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“Application-Level Classification for Internet Traffic based on ML Algorithms,” Dept. of Computer  
Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2007.
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“Design and Implementation of Enterprise IP Network Connectivity Information Management  
System,” Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea,  
Completed, December 2006.
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“Cause Analysis of Packet Loss in Underutilized Enterprise Network Links,” Dept. of Computer  
Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.
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“A Hybrid Approach for Accurate Application Traffic Identification,” Dept. of Computer Science

- and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
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 "Performance Improvement Methods for NETCONF-based Configuration Management," Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
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 "A Real-Time Detection Method for Internet Worms on Enterprise Networks," Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
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 "IP Traffic based Accounting for Internet Services," Dept. of Computer and Communications Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
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 "Design and Implementation of WBEM/SNMP Gateway," Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2005.
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 "Detection and Analysis of Packet Loss in Underutilized Links" Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.
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 "Web Services based Configuration Management for IP Network Devices," Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2004.
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 "XML-based Configuration Management for IP Network Devices", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2003.
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 "Interaction Translation Methods for XML/SNMP Gateway", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2002.
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 "Multimedia Service Traffic Monitoring and Analysis Methods", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2002.
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 "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.
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 "QoS Parameters to Network Performance Metrics Mapping for SLA Monitoring", Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea, Completed, December 2002
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 "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.
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 "Design and Implementation of SNMP Gateway for XML-based Network Management", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2001.
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 "Test Data Generation for Evaluating Intrusion Detection System based on Functionality and Quality", Graduate School for Information Technology, POSTECH, Pohang, Korea, Completed, December 2001.
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Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2001.
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"Approaches to Support Differentiated Quality of Web Service",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2000.
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"Design and Implementation of Embedded Linux System for Networking Devices",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2000.
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"A Method for Measuring the User-Perceived Performance of Web Service ",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 2000.
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"Design and Implementation of High-Speed Internet Gateway",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 2000.
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"Design and Implementation of SNMP Agent Simulator",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 2000.
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"Adaptive Application-Level QoS Management Techniques for Multimedia Traffic",  
Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
Completed, December 1999.
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"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.
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"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.
  53. 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.
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"Automatic Configuration and Reconfiguration of a Web-based Network Traffic Monitoring  
System",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1999.
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"A CORBA-based Secure Session Service for Distributed Multimedia Collaborative

- Environments",  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, December 1998.
56. 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.
  57. 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.
  58. 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.
  59. 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.
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 "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.
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 "A Management Framework for CORBA-based Distributed Services and Applications",  
 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, December 1997.
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 Dept. of Computer Science and Engineering, POSTECH, Pohang, Korea,  
 Completed, December 1997.
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 "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.
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 "Web-based Enterprise Network Traffic Monitoring and Analysis",  
 Graduate School for Information Technology, POSTECH, Pohang, Korea,  
 Completed, December 1997.
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 "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.
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- "A Migration Methodology for 2-tier to 3-tier Architected Client/Server Systems",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1997.
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"Approximate Matching Algorithms for ODP Trader",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1997.
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"CORBA-Based Object Trader Service in the World-Wide Web",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1996.
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"An ODP-Based Type Manager for Trading Services",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1996.
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"Enterprise Information Repository Service System Using X.500 and WWW",  
Graduate School for Information Technology, POSTECH, Pohang, Korea,  
Completed, December 1996.
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"The Design of a Generic Management Agent",  
University of Western Ontario, London, Canada, Co-supervision with  
Dr. M. A. Bauer, Completed, September 1994.
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"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.
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"Managing Distributed Applications",  
University of Western Ontario, London, Canada,  
Co-supervision with Dr. M. A. Bauer, Completed, October 1993.
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"Management and Propagation of the X.500 Schema",  
University of Western Ontario, London, Canada,  
Co-supervision with Dr. M. A. Bauer, Completed, September 1993.