

Kideok Cho, Ph.D.

CONTACT INFORMATION	138-414, Seoul National University San 56-1, Shillim-dong, Gwanak-gu Seoul, 151-742, Korea	<i>Office:</i> +82-2-880-9147 <i>Fax:</i> +82-2-872-2045 <i>E-mail:</i> kdcho@mmlab.snu.ac.kr <i>WWW:</i> http://mmlab.snu.ac.kr/~kdcho
RESEARCH INTERESTS	Content-oriented network architecture & service; Content distribution & caching; Scalable content routing; Wireless/Mobile Networks	
EDUCATION	Ph.D., 2011, School of Computer Science & Engineering, Seoul National University Advisors: <i>Prof. Yanghee Choi</i> and <i>Prof. Ted "Taekyoung" Kwon</i> B.S., 2004, School of Computer Science & Engineering, Seoul National University <i>Magna Cum Laude</i> , With Honors in Engineering	
WORK EXPERIENCES	<ul style="list-style-type: none">• Postdoctoral Researcher; September 2011 - May 2012 at Seoul National University• Technical Secretary; August 2006 - May 2012 at Future Internet Forum (FIF), Korea• Visiting Researcher; December 2006 - May 2007 at Advanced Wireless Networking Lab (AWNL), City University of New York (Advisor: <i>Prof. Myung J. Lee</i>)• Intern; Summer 2002 at Samsung Networks	
THESIS	1. Kideok Cho , "Efficient Content Delivery Towards Content-Oriented Networking," Ph.D. Thesis, Seoul National University, Seoul, Korea, 2011.	
INTERNATIONAL JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Dukhyun Chang, Kideok Cho, Nakjung Choi, Ted "Taekyoung" Kwon, and Yanghee Choi, "A Probabilistic and Opportunistic Flooding Algorithm in Wireless Sensor Networks," <i>Elsevier Computer Communications (COMCOM)</i>, Vol. 35, No. 4, pp. 500-506, February 2012.2. Kideok Cho, Hakyung Jung, Munyoung Lee, Diko Ko, Ted "Taekyoung" Kwon, and Yanghee Choi, "How can an ISP merge with a CDN?," <i>IEEE Communications Magazine</i>, Vol. 49, No. 10, pp. 156-162, October 2011.3. Hakyung Jung, Ted "Taekyoung" Kwon, Kideok Cho, and Yanghee Choi, "REACT: Rate Adaptation using Coherence Time in 802.11 WLANs," <i>Elsevier Computer Communications (COMCOM)</i>, Vol. 34, No. 11, pp. 1316-1327, July 2011.4. Kideok Cho, Sangheon Pack, Ted "Taekyoung" Kwon, and Yanghee Choi, "An Extensible and Ubiquitous RFID Management Framework over Next-Generation Network," <i>Wiley International Journal of Communication Systems (IJCS)</i>, Vol. 23, No. 9-10, pp. 1093-1110, September-October 2010.5. Jeongkeun Lee, Kideok Cho, Seungjae Lee, Taekyoung Kwon, and Yanghee Choi, "Distributed and energy-efficient target localization and tracking in wireless sensor networks," <i>Elsevier Computer Communications (COMCOM)</i>, Vol. 29, No. 13-14, pp. 2494-2505, 21 August 2006.	

1. **Kideok Cho**, Munyoung Lee, Kunwoo Park, Ted “Taekyoung” Kwon, Yanghee Choi, and Sangheon Pack, “WAVE: Popularity-based and Collaborative In-network Caching for Content-Oriented Networks,” in *Proc. IEEE INFOCOM Workshop on Emerging Design Choices in Name-Oriented Networking (NOMEN)*, Florida, USA, March 2012.
2. Munyoung Lee, **Kideok Cho**, Kunwoo Park, Ted “Taekyoung” Kwon, and Yanghee Choi, “SCAN: Scalable Content Routing for Content-Aware Networking,” in *Proc. IEEE International Conference on Communications (ICC) 2011*, Kyoto, Japan, June 2011.
3. **Kideok Cho**, Hakyung Jung, Munyoung Lee, Diko Ko, Ted “Taekyoung” Kwon, and Yanghee Choi, “How can an ISP merge with a CDN?,” in *Proc. of ITU Kaleidoscope - Beyond the Internet? - Innovations for future networks and services (K-2010)*, Pune, India, December 2010. **Second Best Paper Award** (Acceptance Ratio: $(23+14)/115 = 32.1$
4. Youndo Lee, **Kideok Cho**, Ted “Taekyoung” Kwon, and Yanghee Choi, “A Robust Flooding Algorithm in Multi-Radio Multi-Channel Wireless Mesh Networks,” in *Proc. of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2010)*, Montreal, Canada, June 2010. (Short Paper, Acceptance Ratio: $(35+12/165) = 28.5$
5. Diko Ko, **Kideok Cho**, Munyoung Lee, Hyunchul Kim, Ted “Taekyoung” Kwon, and Yanghee Choi, “Decentralized and Autonomous Content Overlay Networking (DACON) with WiFi Access Points,” in *Proc. of International Conference on Future Internet Technologies (CFI) 2010*, Seoul, Korea, June 2010.
6. Jinyoung Han, Jeongkeun Lee, Munyoung Lee, **Kideok Cho**, Tae Joon Ha, Ted “Taekyoung” Kwon, and Yanghee Choi, “Virtual WiFi Network Database Construction for Positioning Services,” in *Proc. of International Conference on Future Internet Technologies (CFI) 2009*, Seoul, Korea, June 2009.
7. **Kideok Cho**, Munyoung Lee, Dong-il Diko Ko, Taekyoung Kwon, and Yanghee Choi, “An Efficient Multicast Routing in IEEE 802.15.5 Networks,” in *Proc. of International Conference on Information Networking (ICOIN) 2009*, Chiang Mai, Thailand, January 2009.
8. **Kideok Cho**, Jaeyoung Choi, Dong-il Diko Ko, Taekyoung Kwon, and Yanghee Choi, “Content-Oriented Networking as a Future Internet Infrastructure: Concepts, Strengths, and Application Scenarios,” in *Proc. of International Conference on Future Internet Technologies (CFI) 2008*, Seoul, Korea, June 2008.
9. Hakyung Jung, **Kideok Cho**, Yongho Seok, Taekyoung Kwon, and Yanghee Choi, “RARA: Rate Adaptation Using Rate-adaptive Acknowledgment for IEEE 802.11 WLANs,” in *Proc. of IEEE Consumer Communications & Networking Conference (CCNC) 2008*, Las Vegas, USA, January 2008.
10. **Kideok Cho**, Sangheon Pack, Taekyoung Kwon, and Yanghee Choi, “SRMS: SIP-based RFID Management System,” in *Proc. of IEEE International Conference on Pervasive Services (ICPS) 2007*, Istanbul, Turkey, July 2007.
11. Min Zhang, Sangheon Pack, **Kideok Cho**, Dukhyun Chang, Yanghee Choi, and Taekyoung Kwon, “An Extensible Interworking Architecture (EIA) for Wireless Sensor Networks and Internet,” in *Proc. Asia-Pacific Network Operations and Management Symposium (APNOMS) 2006 Poster Sessions*, Busan, Korea, September 2006.

DOMESTIC
JOURNAL
PUBLICATIONS

1. **Kideok Cho**, Yongwoon Park, Taekyoung Kwon, and Yanghee Choi, "QoS-guaranteed Multimedia Streaming for Multiple Interfaces," *Journal of KIISE: Information Networking*, Vol. 36, No. 3, pp. 191-197, June 2009.
2. Sangheon Pack, Min Zhang, Dukhyun Chang, **Kideok Cho**, Yanghee Choi, and Taekyoung Kwon, "A Survey on Integration Schemes of Wireless Sensor Networks and Internet for Ubiquitous Sensor Networks," *SK Telecommunications Review*, Vol. 15, No. 2, April 2005.

OTHER
PUBLICATIONS

1. **Kideok Cho**, Kunwoo Park, and Munyoung Lee, "An overview of content-oriented networking researches," *KISA Future Internet Issue Analysis Series*, December 2010.

PATENTS

1. **Kideok Cho**, Munyoung Lee, Soyoung Park, Hakyung Jung, Diko Dong-il Ko, Taekyoung Kwon, and Yanghee Choi, "Delivering Contents by Using Storage of Network," Korea Patent, No. 10-2010-0102721, Pending, October 2010.
2. Dong-il Ko, **Kideok Cho**, Munyoung Lee, Taekyoung Kwon, and Yanghee Choi, "A Hybrid Network Apparatus for Combining an Endpoint-Oriented Networking and a Content-Oriented Networking, and Method of Using Thereof," Korea Patent, No. 1009784710000, August 23, 2010.
3. Dong-il Ko, **Kideok Cho**, Munyoung Lee, Taekyoung Kwon, and Yanghee Choi, "A Network System and Method thereof with DACON," Korea Patent, No. 10-2008-0055721, Pending, June 2008.

PROJECT
EXPERIENCES

- Fundamental Research on In-network Caching and Routing for Named-data Networking sponsored by Korea Communication Agency (KCA) (2011.03 - 2011.12)
- Future Internet Network Model Development sponsored by Korea Research Council of Fundamental Science & Technology (KRCF) (2008.12 - 2011.12)
- Fundamental technologies for the Future Internet sponsored by Ministry of Information and Communication (MIC) (2007.09 - 2010.02)
- Ubiquitous Content Service in the Future Internet sponsored by National Information Society Agency (NIA) (2008.07 - 2008.12)
- Ubiquitous Zone Project sponsored by Ministry of Information and Communication (MIC) (2007.03 - 2008.02)
- Development of an Adaptive Immersive 3D Networked Virtual Environment sponsored by Incheon IT Promotion Agency (IITPA) (2006.01 - 2007.02)
- Integration of Wireless Sensor Networks and Internet supported by Korea Science and Engineering Foundation (KOSEF) (2004.9 - 2007.8)

INVITED TALKS

- Korea University, "Efficient Content Delivery Towards Content-Oriented Networking," Seoul, Korea, Sep. 2011.
- National Information Society Agency (NIA), "How can an ISP merge with a CDN?," Seoul, Korea, Feb. 2011.
- KT, "An overview of content-oriented networking researches," Seoul, Korea, Aug. 2010.

PROFESSIONAL SERVICES	<ul style="list-style-type: none"> • Committee member of AsiaFI NDN Hands-on Workshop 2012, Future Internet Workshop 2010, AsiaFI School on Mobile & Wireless Networks 2010, Future Internet Summer Camp 2008, AsiaFI School on Architecture and Building blocks 2008, AsiaFI School on Mobile & Wireless Networks 2008, Graduate Workshop on Networking 2007 • Reviewer of Elsevier JNCA, Wiley IJCS, GLOBECOM 2007, ICC 2006, MASS 2005/2008, WCNC 2009/2010, COMSWARE 2007/2008, SWCC 2007, ICOIN 2008/2009
AWARDS	<p>ITU Kaleidoscope - Beyond the Internet? - Innovations for future networks and services (K-2010)</p> <ul style="list-style-type: none"> • The Second Best Paper Award, December 2010 • The Young Author Recognition, December 2010 <p>Telecommunications Technology Association (TTA), Korea</p> <ul style="list-style-type: none"> • The Prize for Encouragement in the <i>2nd TTA IT Standardization Paper Contest</i>, December 2006. (joint work with Sangheon Pack, Title: Ubiquitous Mobile RFID Management Framework based on IP Multimedia Subsystem) • The Prize for Encouragement in the <i>1st TTA IT Standardization Paper Contest</i>, December 2005. (joint work with Sangheon Pack, Title: A Study on RFID Management System based on SIP) <p>Scholarship</p> <ul style="list-style-type: none"> • Korea Student Aid Foundation (KOSAF), 2009 - 2010 • Sinyang Cultural Foundation, 2001 - 2003 • School of Computer Science & Engineering, Seoul National University, 2000
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: C++, Java, Visual C++, Visual Basic, nML, Python • OS: MS Windows, Linux/FreeBSD, TinyOS, Nano-Qplus • Tools: Oracle, QualNet, NS2
PROFESSIONAL SOCIETIES	FIF, IEEE, IEICE, KICS, KIISE
REFERENCES	<p>Prof. Yanghee Choi (e-mail: yhchoi@snu.ac.kr; phone: +82-2-880-7303)</p> <ul style="list-style-type: none"> • Professor, School of Computer Science & Engineering, Seoul National University, Korea <p>Prof. Ted “Taekyoung” Kwon (e-mail: tkkwon@snu.ac.kr; phone: +82-2-880-9105)</p> <ul style="list-style-type: none"> • Professor, School of Computer Science & Engineering, Seoul National University, Korea <p>Prof. Myung J. Lee (e-mail: lee@ee.ccny.cuny.edu; phone: +1-212-650-7260)</p> <ul style="list-style-type: none"> • Professor, Department of Electrical Engineering, City University of New York, USA <p>Prof. Sangheon Pack (e-mail: shpack@korea.ac.kr; phone: +82-2-3290-4825)</p> <ul style="list-style-type: none"> • Professor, School of Electrical Engineering, Korea University, Korea