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▌ Educational background

• Aug. 2018: Ph.D. in Computer Engineering, Iowa State University

• Feb. 2010: M.S. in Info. & Mecha., Gwangju Institute of Science and Technology

• Feb. 2008: B.S. in Computer Science and Engineering, Pusan National University

▌ Major careers

2010 ~ 2013 : Telecommunications Technology Association, Software Testing & Certification Lab., Research Engineer

▌ Studies & Books

〈저널/Peer-reviewed journal papers〉
• Taewoon Kim and J. Morris Chang, "QoS-aware energy efficient association and resource scheduling for HetNets," IEEE Transactions on Vehicular Technology, vol. 67, no. 1, pp. 650-664, Jan. 2018.

• Taewoon Kim and J. Morris Chang, "Enhanced Power Saving Mechanism for large-scale 802.11ah wireless sensor networks," IEEE Transactions on Green Communications and Networking, vol. 1, no. 4, pp. 516-527, Dec. 2017.

• Taewoon Kim and Wooyeol Choi, Seungjae Baek, and Myeong-Ho Lee, "Optimal cooperative retransmission and rate control on wireless networks," Journal of Advanced Research in Dynamical and Control Systems, 08-Special Issue, pp. 15-25, 2017.

• Taewoon Kim and Wooyeol Choi, "Secure cooperative sensing scheme for cognitive radio networks," The Journal of Korean Institute of Communications and Information Sciences, vol. 41, no. 8, pp. 877-889, August 2016.

• Taewoon Kim, Jaeseon Hwang, and Hyuk Lim, "Distributed semi-synchronous channel coordination for multi-channel wireless networks," Elsevier Ad Hoc Networks, vol. 11, no. 1, pp. 368-382, January 2013.

• Jaeseon Hwang, Taewoon Kim, Jungmin So, and Hyuk Lim, "A receiver-centric multi-channel MAC protocol for wireless networks," Elsevier Computer Communications, vol. 36, no. 4, pp. 431-444, February 2013.

• Wooyeol Choi, Taewoon Kim, Daeyoung Park, Heung-No Lee, and Hyuk Lim, "Coordinating transmit power and carrier phase for wireless networks with multi-packet reception capability," EURASIP Journal on Wireless Communications and Networking, vol. 2013, no. 1, January 2013.

• Taewoon Kim, Wooyeol Choi, and Hyuk Lim, "Implementation and empirical evaluation of indoor localization in IEEE 802.15.4 network," The Journal of Korean Institute of Communications and Information Sciences, vol. 35, no. 1, pp. 162-175, January 2010 (in Korean).

〈학회지/Peer-reviewed conference proceedings〉
• Taewoon Kim, Daji Qiao, and Wooyeol Choi, "Energy-efficient scheduling of Internet of Things devices for environment monitoring applications," IEEE International Conference on Communications (ICC 2018), Kansas City, MO, May 20-24, 2018. (IEEE Xplore)

• Taewoon Kim and Wooyeol Choi, "Modeling and analysis of a clustered sensor network for IoT," 한국통신학회 학술대회논문집, June 2017.

• Wooyeol Choi, In-Sung Jang, and Taewoon Kim, "Antenna allocation scheme for full-duplex communication in IEEE 802.11ac WLAN," IEEE International Conference on Consumer Electronics (ICCE 2017), Las Vegas, NV USA, Jan. 8-10, 2017.

• Taewoon Kim and Wooyeol Choi, "Optimal transmission rate control for wireless networks," 한국통신학회 학술대회논문집, June 2016.

• Taewoon Kim, Wooyeol Choi, and Hyuk Lim, "Alleviating intra-flow interference by inter-arrival based packet dropping in wireless multi-hop networks," International Conference on Future Internet Technologies (CFI 2010), Seoul, Korea, June 16-18, 2010.

• Wooyeol Choi, Taewoon Kim, Heung-No Lee, and Hyuk Lim, "Carrier phase adjustment for multiple access communication systems with multi-packet reception capability", IEEE Wireless Communications and Networking Conference (WCNC 2010), Sydney, Australia, Apr. 18-21, 2010.

• Taewoon Kim, Hyuk Lim, and Chaewon Lim, "Exploiting multi-flow diversity for mitigating intra-flow interference in wireless mesh networks", International Conference on Emerging Networking Experiments and Technologies (ACM CoNEXT Student Workshop 2008), Madrid, Spain, Dec. 9-12, 2008.

• Tae-Woon Kim, Sang-Hwa Chung, In-Su Yoon, and Jeong-Soo Kim, "Effects of handover on TCP congestion control algorithm over mobile WiMAX", 5th IEEE Consumer Communications and Networking Conference (CCNC 2008 Demonstrations), Las Vegas, NV USA, Jan. 10-12, 2008.

〈특허/Patent〉
• Node and channel control method for the same (노드 및 이를 위한 채널 제어방법), Patent No. 10-1146094, May 3, 2012, South Korea

• Apparatus and method for carrier phase adjustment for multiple access communication systems with multi-packet reception capability (다중 패킷 수신 환경에서의 다중 접근 통신을 위한 전송파 위상 조절 장치 및 방법), Patent No. 10-1117791, Feb. 10, 2012, South Korea

Others

May, 2017 : Teaching Excellence Award, Iowa State University