* **Title** : Beyond 5G Standards and New Opportunities of Artificial Intelligence for Its Applications

* **Abstract** : 본 세미나에서는 3GPP 및 IEEE 802.11 표준 단체에서 주도하는 5G NR (3GPP Rel-15/16) 및 Wi-Fi 6 표준 (IEEE 802.11ax) 기술 동향을 간단히 소개하고, 3GPP Rel-17이후의 Beyond 5G 핵심 표준기술인 저복잡도 및 고신뢰/저전력 5G NR 진화 기술과 초광대역 지원 차세대 무선랜 표준인 IEEE 802.11be (Wi-Fi 7) 주요 기술을 살펴보고자 한다. 또한, Wi-Fi Multi-AP Mesh Network에서의 뉴럴네트워크를 활용한 인공지능의 무선랜 적용 사례를 공유하고, 통신 표준과 연계된 인공지능 기술의 확장 및 활용 가능성을 함께 논의하고자 한다.

* **Bio** : JIN SAM KWAK (sam@wilusgroup.com) received his B.S., M.S., and Ph.D. degrees in Electrical Engineering and Computer Science from Seoul National University, Seoul, Korea, in 1998, 2000, and 2004, respectively. From 2004 to 2005, he was a postdoctoral research associate in the School of Electrical and Computer Engineering, Georgia Institute of Technology. During 2006, he was also with the Wireless Networks and Communications Group (WNCG), the University of Texas at Austin as a post-doctoral research fellow. From 2007 to 2012, he was with LG Electronics as a chief research engineer. During this time, he carried out research tasks on the IMT-Advanced and also led the standards activities for wireless communications in IEEE 802 (especially, IEEE 802.11/15/16/19), Wi-Fi Alliance (served as an alternative board member), and WiMAX Forum. Since 2013, he has been with WILUS Institute of Standards and Technology, INC, where he is currently CEO and co-founder. His main research interests focus on advanced & enabling technologies for next generation wireless communications & immersive multimedia coding standards including 3GPP 5G NR, IEEE 802.11, MPEG.