

# In-Building Small Cell Networks: Achieving High Capacity Indoors

Rony Kumer Saha  
Radio and Spectrum Laboratory  
KDDI Research, Inc.  
2-1-15 Ohara, Fujimino-shi, Saitama, Japan  
email: ro-saha@kddi-research.jp

## Short Biography of the Tutorial Presenter



RONY KUMER SAHA has been working as a Research Engineer (Postdoctoral Fellow) with the Radio and Spectrum Laboratory, KDDI Research, Inc., Japan since 2017. He received the Ph.D. degree in electrical engineering from Chulalongkorn University, Thailand and the M.Eng. degree in information and communications technologies from Asian Institute of Technology, Thailand, in 2017 and 2011, respectively.

From September 2013 to July 2014, he was with East West University, Bangladesh. Before that he worked as a Lecturer and later promoted to an Assistant Professor with American International University-Bangladesh (AIUB), Bangladesh, from January 2005 to August 2013. He has research experiences on mobile wireless communications in universities and industries for about 11 years.

He has authored about 60 peer-reviewed, reputed, and recognized international journals (such as IEEE Access, International Journal of Communication Systems (Wiley), Mobile Information Systems (Hindawi), Wireless Communications and Mobile Computing (Wiley/Hindawi), Sensors (MDPI), Energies (MDPI), and IEEJ Transactions on Electrical and Electronic Engineering (Wiley) and conferences (IEEE ICC, IEEE GLOBECOM, IEEE PIMRC, IEEE VTC, IEEE DySPAN, WPMC, ICSNC, ICN, and ECTI-CON) papers.

He received the Best Paper Award in IARIA ICSNC 2020, Portugal and the Highest Evaluation Score (Postdoctoral Fellow) for four consecutive fiscal-half years (2019-2020) at KDDI Research, Inc., Japan. He also filed an international patent. His current research interests include 5G and beyond ultra-dense HetNets, spectrum sharing, policy, and management in multiple communication systems, and millimeter-wave communications.

Dr. Saha has been serving as an Associate Editor of the Engineering Journal, Thailand since 2019. He is currently serving as a Steering Committee Member of IARIA ICSNC 2021. Previously, he served as a member of the Fronthaul Working Group, xRAN Forum, USA and a TPC Member of the 2018 IEEE Global Communications Conference Workshops, as well as the 2021 IARIA ICNS. He also served as the Session Chair for two sessions, namely Radio Resource Management and Aerial Networks at the 2019 IEEE VTC-Fall, Honolulu, HI, USA, and the 2019 IEEE International Symposium on Dynamic Spectrum Access Networks Newark, NJ, USA, for the session Spectrum Sharing in 5G.

Dr. Saha also served as a Reviewer for a number of recognized journals, including IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, IEEE Wireless Communications, IEEE Access, Physical Communication (Elsevier), International Journal of Communication Systems (Wiley), Sensors Journal (MDPI), Symmetry Journal (MDPI), Mobile Information Systems (Hindawi), and Sustainability Journal (MDPI).