# New Assistant Professor Announced – Dr. Koo Choongwan

Dr. Koo Choongwan
Assistant Professor
Department of Building Services Engineering

The Department of Building Services Engineering (BSE) is pleased to announce that Dr. Koo Choongwan has been appointed the new Assistant Professor of BSE, starting in mid-November 2016.

Dr. Koo received his bachelor's degree and master's degree in Architectural Engineering from the University of Seoul, South Korea. He obtained his PhD degree in Architectural Engineering from Yonsei University, South Korea in 2014.
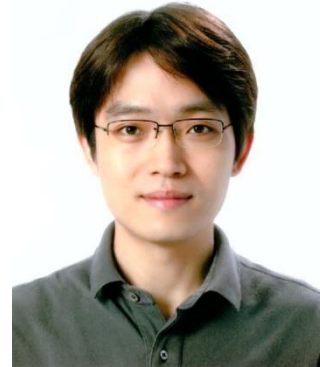
Dr. Koo has a good mix of academic and industrial experience. Before joining BSE at The Hong Kong Polytechnic University, Dr. Koo served as a Research Professor in the Department of Architectural Engineering at Yonsei University, South Korea, and as a Visiting Scholar in the Division of Construction Engineering and Management at Purdue University, USA from 2015 to 2016. Also, he worked as a Lecturer in the Department of Architectural Engineering at Inha University, South Korea in 2014 and gained professional industrial experience during his work in the HanmiGlobal Co. Ltd. of South Korea from 2007 to 2010, which is an international construction engineering and management company.

Dr. Koo has an expertise in the areas of sustainable facility engineering & management (more specifically, urban building energy performance) and intelligent decision-support system. In particular, he has strong knowledge and skills in the predictive and prescriptive analytics and the visualization technique (e.g. big data analytics, data-mining techniques, geographic information system, life cycle assessment, simulation modeling techniques, and computer programming language).

Dr. Koo has strong track records of more than 50 SCI publications in high-quality peer-reviewed international journals, over 30 conference papers (including articles), and more than 10 patents. Furthermore, he has been listed in the Marquis Who's Who in the World® 2016 (33rd Edition).

Dr. Koo is recently interested in the research of a real-time energy demand-side management in the building sector from a city's point of view, which focuses on monitoring, diagnosing, and retrofitting the building energy performance with the concept of "dynamic approach" under the new paradigm of an "urban organism".