

Presentation title

'Analyses of canopy light interception, photosynthesis, and light use efficiency in LED plant factories using 3D plant model and optical simulation'

Biography

Professor Jung-Eek Son, Professor, Department of Plant Science, Seoul National University, South Korea



Professor of Greenhouse Horticulture and Plant Factory, Department of Plant Science, Seoul National University (SNU), Korea. He graduated from SNU and took MS/PhD degrees from University of Tokyo. He worked at IBM as system analyst, researched at Yokogawa Electric Company & Purdue University as post-doc, and University of Arizona as visiting professor. Recently he is focusing on theoretical and experimental analysis of nutrient management in closed-loop soilless culture, modelling of plant growth and canopy photosynthesis, 3D plant modelling and optical simulation for improving light use efficiency, and phytochemical production in greenhouse and plant factory. He was the convener of GreenSys2013, Korea and the working group chair of automation and integrated production system in horticulture, ISHS. He acted the presidents of the Korean Society of Horticultural Science and the Korea Society for Bio-environment Control. Currently he is acting the president of the Korean Society for Vertical Farming Research & Industry. (Email: sjeenv@snu.ac.kr)