

Abstract:

Intelligent lighting has attracted lots of the interests as human has spent more and more time indoor. Semiconductor-based illumination network is an ideal bearer to carry on this mission. By introducing the information and communication technologies to the illumination networks, the architecture of Internet of Light (IoL) is designed. IoL can provide many value-added services such as indoor positioning, high-speed information transmission, and vehicle to roadside communication. IoL can also combine the visible light communication (VLC) with the powerline communication (PLC) and/or wireless communications (i.e., 5G) to support the intercommunication of all the related devices.

Bio:

Jintao Wang received the B.Eng. and Ph.D. degrees in Electronic Engineering both from Tsinghua University, Beijing, China, in 2001 and 2006, respectively. Since 2006, he has worked in the Department of Electronic Engineering at Tsinghua University. Now he is a full Professor and Ph.D. Supervisor. He is the Fellow of IET and Chinese Institute of Electronics. He is also the Senior Member of IEEE. He has published more than 180 journal and conference papers and holds more than 50 national invention patents. His current research interests include digital multimedia broadcasting, wireless broadband communication, visible light communication, and AI enhanced communication systems.