

Gigabit fast Free Space communications at room temperature



This talk summarizes our recent experimental studies in free-space communications in the mid-wave infrared (MWIR, 3-5 µm) and the long-wave IR (LWIR, 8-12 µm) wavelengths, enabled by directly modulated quantum cascaded lasers (QCL). We have demonstrated multigigabit bitrate free-space data transmissions at room temperature, by combining multi-level modulation formats, i.e., pulse-amplitude modulation (PAM), and advanced digital equalization techniques.

Xiaodan Pang is a Senior Researcher at the Applied Physics Department, KTH Royal Institute of Technology, Sweden. His research focuses on high-speed data transmission technologies with free-space optics, MMW/THz RF-photonics, and fibreoptics. He is the author of over 200 publications in scientific journals and conferences and has given over 20 invited talks at international conferences.



Join Xiaodan's talk on Wednesday, April 13 at 11am CET, on the Zoom-link below

