

Terahertz waveguides: the fundamental component for next generation of communication

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Abstract (50 words max): There is a rapid development in utilizing Terahertz frequencies for next generation of communications. Integrated platforms that support unprecedented bandwidth are a means to an end. In this talk, I will discuss how recent advances in photonics can facilitate low-loss and low-dispersion waveguides with exceptional bandwidth.

Biography (100 words max): Dr Shaghik Atakaramians is a senior lecturer in School of Electrical Engineering and Telecommunication at UNSW. Shaghik has established Terahertz laboratory and leads Terahertz Innovation Group at UNSW. Prior to that, she worked at the Institute of Photonics and Optical Science (IPOS) and The Centre for Ultrahigh bandwidth Devices for Optical Systems (CUDOS) at the University of Sydney first as a postdoctoral fellow and then as research fellow. She was awarded her PhD in in Electrical & Electronic Engineering from University of Adelaide. Shaghik is an Associate Editor of APL Photonics. She is a senior IEEE and senior OSA member.

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