Mikael Mazur

Mikael Mazur received his PhD from Chalmers University of Technology, Sweden in 2019. His dissertation focused on optical frequency combs in optical communications, specifically multi-wavelength signal processing schemes enabled by comb coherence. In January 2020, he joined Bell Labs, NJ, as a member of the technical staff in the advanced photonics research department. His current research focuses on developing novel fiber-optic sensing systems and real-time signal processing to seamlessly integrate sensing within optical data transmission infrastructure. With a particular focus on leveraging trans-oceanic submarine cables, he actively researches real-time deep-ocean monitoring for critical applications in environmental, oceanographic, and geophysical investigations, including the development of cutting-edge tsunami and earthquake early warning systems. He is a member of IEEE, OPTICA, and the SSA, and an active member of the Joint Task Force on SMART Cables and the Suboptic working group on Sensing using Operational Subsea Cables.