


**Automated detection of tunnel excavation (Technion)**

**code:** CIV-1108

Cross-borders smuggling tunnels pose a very serious threat to security. Recent advances in strain measurement by fiber-based Brillouin optical time domain reflectometry (BODTR), led to the development of commercially available systems with sensitivity of less than 5 $\mu$ m and spatial resolution of 1m, thus enabling sufficiently sensitive device, which can detect tunnel excavation through the strains the tunnel causes near the surface.

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