

Open Seminar Series

Geoscience & Remote Sensing

Radar present and future : focus on infrastructure monitoring

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12:40-13:30

CiTG room F

TNO (Netherlands Organization for Applied Scientific Research) has been developing radar technology for more than 80 years. We have designed radar systems and related technology for a large variety of applications. In this seminar we focus on the research we have performed concerning infrastructure monitoring.

We will discuss present technology by showing how radars, more particular spaceborne radars, are currently applied to monitor different types of infrastructure. We will do this by taking a look at two examples. First we will present the results of monitoring the tower of the Oude Kerk (Old Church) in Delft. We will then continue with the results of monitoring a grass covered dike to the south of Amsterdam.

We will also take a glance at new technologies that are expected to be part of future satellite missions. In particular, we will explore Digital Beam Forming (DBF) techniques. We will present the research performed by TNO in this direction and some examples of airborne applications.



The Oude Kerk (Delft) is monitored using spaceborne radar.