

Workshop in Geodesy and SAR

We are planning on an international workshop in Geodesy and Synthetic Aperture Radar (SAR) to be held in Espoo, Finland in March 2023. SAR technique has been used since 1980's but the coverage and accuracy are becoming better, making it usable tool also for applications requiring geodetic accuracy. We are hoping the workshop could bring together researchers from different fields and countries and be the starting point for fruitful cooperation in the future.

The special call is directed for basic sciences for sustainable development. Geodesy is a very basic science, laying behind e.g. all coordinate systems and GNSS positioning, but in everyday life, it is quite well hidden. Most Earth Observations that are needed to monitor climate change and understand if the development that is happening is sustainable, are observed on systems based on geodesy. The workshop that we are proposing will widen the usage and monitoring accuracy of satellites, thus enhancing the sustainable development monitoring on land. Another aspect is that satellite observations are available globally, and if we can make SAR positioning accurate enough, it could serve the countries with less developed geodetic infrastructure to get a well-defined reference frame which in turn is the base for cadaster systems needed for land ownership.

The objectives of the workshop are quite simple, as the main goal is to bring people and ideas together and see where it leads. More specifically the goal is to let researchers from different backgrounds meet and discuss, increase the understanding for each discipline and create new opportunities for collaboration and funding calls.