

Satellite radar interferometry: state of the art and future directions

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Satellite radar interferometry developed significantly during the last years, in the fields of processing methodology, applications, long-term satellite observation programs, and specific mission development. At the same time, estimating parameters which are more precise implies that the level of the corrections for error terms is becoming more difficult. In this presentation, we will analyze specific developments in radar data processing, especially related to the estimation of geophysical signal, discuss the state-of-the-art, and the requirements for the future. New applications are shown, and the issue of quality control will be discussed. Finally, new and upcoming satellite missions and observation programs such as GMES are covered, leading to an outlook into the future.