



# Tomographic SAR Reconstruction of a 4D City using TerraSAR-X data

By Clemence Chee

GRIN Verlag Feb 2013, 2013. Taschenbuch. Book Condition: Neu. 211x146x3 mm. This item is printed on demand - Print on Demand Neuware - Bachelor Thesis from the year 2012 in the subject Engineering - Aerospace Technology, grade: 1,3, Technical University of Munich (Deutsches Zentrum für Luft- und Raumfahrt), course: Photogrammetrie und Fernerkundung, language: English, abstract: Driven by military and civilian applications, the demand of very high resolution mapping and accurate monitoring has increased rapidly over the recent years. Nowadays, it is possible to create 4D models involving time variations using multiple synthetic aperture radar (SAR) images, combined with interferometric methods. SAR has evolved to satisfy a variety of applications for civilian and military users, for example by supporting catastrophe management, detection of geological changes, monitoring large construction sites or mines. With the help of SAR data obtained from the TerraSAR-X satellite, infrastructural monitoring is made possible from a distance. The benefit of this is that potential collapse within mines or tunnels could be prevented. Concrete degradation that could lead to building collapse, endangering people's lives can also be identified before any catastrophe has the chance to occur. Currently, Tomographic SAR (TomoSAR) is the most advanced and competent interferometric SAR (InSAR)...



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