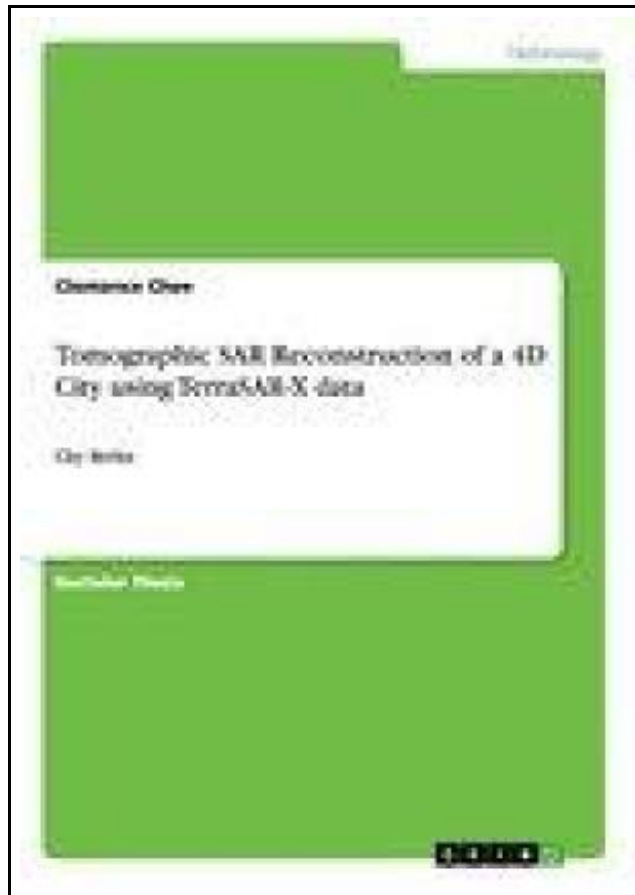# Tomographic SAR Reconstruction of a 4D City using TerraSAR-X data

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(Prof. Kacey O'Hara)

TOMOGRAPHIC SAR RECONSTRUCTION OF A 4D CITY USING TERRASAR-X DATA

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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) method in the area of urban monitoring. TomoSAR makes monitoring in 4D possible by creating the 3D position with the motion parameters. This thesis applies a new TomoSAR technique and method, developed by ZHU and her colleagues, 2012 [1], on a very high resolution (VHR) spotlight data stack in the area of Berlin. The images were taken by the TerraSAR-X satellite (Germany) over a timeframe of 3 years. The result is a 3D point cloud of the observed area, with the velocity of linear motion and the amplitude of periodic motion. The result of the work that forms the basis...

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