

Radarinterferometrie: Dgm-projekte - Jan Heinichen

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Dreidimensionale Daten in Form von Digitalen GelÄnde- und OberflÄchenmodellen haben in den letzten Jahren enorm an Bedeutung gewonnen. Gründe dafür sind zum einen die Entwicklung neuer Messverfahren, die es ermöglichen, diese Daten schnell, flächendeckend, relativ kostengünstig und mit hoher Genauigkeit zu erfassen. Zum anderen steigt der Bedarf an diesen Daten, weil die dritte Dimension vielen Anwendungen weitere Möglichkeiten eröffnet. Genannt seien hier geologische und hydrologische Fragestellungen, Kartenerstellung, Telekommunikation, Flugplanung und Navigation. Die Radarfernerkundung bietet die Möglichkeit die Höheninformation der Erdoberfläche unabhängig von der Tageszeit und Witterung zu erfassen. Ein spezielles Verfahren, das hierzu entwickelt wurde ist das Interferometrische Synthetische Aperture Radar (InSAR bzw. IFSAR), welches sowohl in Flugzeugen als auch an Bord von Satelliten zum Einsatz kommt. Im folgenden wird dieses Verfahren beschrieben und im Anschluss dargestellt, wie in der Praktischen Anwendung ein Digitales Höhenmodell erstellt wird. Author: Heinichen, Jan Publisher: GRIN Verlag Illustration: N Language: GER Title: Radarinterferometrie: DGM-Projekte Pages: 00034 (Encrypted PDF) On Sale: 2007-01-01 SKU-13/ISBN: 9783638715232 Category: Science : Earth Sciences - Geography

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