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Structure from Motion in the Geosciences 26 9 A

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Structure from Motion in the Geosciences

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structure from motion with multi view stereo provides hyperscale landform models using images acquired from standard compact cameras and a network of ground control points the technique is not limited in temporal frequency and can provide point cloud data comparable in density and accuracy to those generated by terrestrial and airborne laser scanning at a fraction of the cost it therefore offers exciting opportunities to characterise surface topography in unprecedented detail and with multi temporal data to detect elevation position and volumetric changes that are symptomatic of earth surface processes this book firstly places structure from motion in the context of other digital surveying methods and details the structure from motion workflow including available software packages and assessments of uncertainty and accuracy it then critically reviews current usage of structure from motion in the geosciences provides a synthesis of recent validation studies and looks to the future by highlighting opportunities arising from developments in allied disciplines this book will appeal to academics students and industry professionals because it balances technical knowledge of the structure from motion workflow with practical guidelines for image acquisition image processing and data quality assessment and includes case studies that have been contributed by experts from around the world



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Structure from Motion in the Geosciences provides a comprehensive overview of the techniques and applications of structure from motion (SfM) in the geosciences. The book covers the entire workflow, from image acquisition to data processing and visualization. It includes a detailed discussion of the underlying principles of SfM, as well as practical guidelines for data collection and processing. The book also presents a range of case studies, illustrating the use of SfM in a variety of geoscientific applications, including landform modeling, change detection, and paleogeographic reconstruction. The book is written in a clear and accessible style, making it suitable for both students and professionals in the field. It is a valuable resource for anyone interested in the use of SfM in the geosciences.

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