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   Soggetti   Research and information: general

   Lingua di pubblicazione   Inglese

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   Sommario/riassunto Remote sensing plays a pivotal role in understanding where and how
                       floods and glacier geohazards occur; their severity, causes and types;
                       and the risk that they may pose to populations, activities and
                       properties. By providing a spectrum of imaging capabilities, resolutions
                       and temporal and spatial coverage, remote sensing data acquired from
                       satellite, aerial and ground-based platforms provide key geo-
                       information to characterize and model these processes. This book
                       includes research papers on novel technologies (e.g., sensors,
                       platforms), data (e.g., multi-spectral, radar, laser scanning, GPS,
                       gravity) and analysis methods (e.g., change detection, offset tracking,
                       structure from motion, 3D modeling, radar interferometry, automated
                       classification, machine learning, spectral indices, probabilistic
                       approaches) for flood and glacier imaging. Through target applications
                       and case studies distributed globally, these articles contribute to the
                       discussion on the current potential and limitations of remote sensing in
                       this specialist research field, as well as the identification of trends and
                       future perspectives.