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Here we report a novel approach, using
unmanned aerial vehicles (UAVs) to
generate centimeter resolution

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orthomosaics and DEMs for the study of whaleback yardangs in Qaidam Basin, NW China. The ultra high resolution data provide new insights into the geomorphology characteristics and evolution of the whaleback yardangs in Qaidam Basin.

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In tandem, the development and increased affordability of Unmanned Aerial Vehicles (UAVs) as a novel platform with which to collect the low-level aerial photography needed for such photogrammetry has seen a

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geomorphology study
rapid increase in their usage in
geomorphological studies (Lejot et al., 2007;
Hugenholtz et al., 2013).

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This study uses SfM (Structure-from-
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combination of archive aerial and UAV (unmanned aerial vehicle) derived imagery to investigate the degradation of an ice-cored lateral-frontal moraine at Austre Lov é nbreen, Svalbard.

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Latest 2020 version of Global Small Unmanned Aerial Vehicles Market study of 121+ data Tables, Pie Chart, Graphs & Figures spread through Pages and easy to understand in depth analysis. “ Small Unmanned Aerial Vehicles Market by Type (, Helicopters, Multi-Rotors & Quadcopters), by Application (Aerial

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developed and applied a protocol based on the collection of still images with an overlap in coverage of the survey area. We included this overlap in the survey design in order to avoid gaps in the search strip and to take into account double sightings during data analyses.

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Monitoring marine mammals using
unmanned aerial vehicles ...

Detailed alluvial fan geomorphology in a
high-arctic periglacial environment,
Svalbard: application of unmanned aerial
vehicle (UAV) surveys Aleksandra M.
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b,c aFaculty of Geographical and Geological Sciences, Adam Mickiewicz University, Poznań, Poland; bDepartment of Health and Environmental Science, Xi'an Jiaotong ...

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Northrop Grumman commenced assembly of the first of up to seven MQ-4C Triton high-altitude, long-endurance (HALE) unmanned aerial vehicles (UAVs) for Australia, it announced on 27 October. The ...

Northrop Grumman begins building first

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Triton UAV for ...

unmanned aerial vehicles (UAVs; Chandler et al., 2015; Evans et al., 2016b; Hackney and Clayton, 2015; Rippin et al., 2015).

Once acquired, these photos can be transformed into an elevation model using structure from motion (SfM) techniques (Smith et al., 2016). This enables the rapid

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collection of high resolution geospatial data at a fraction of the cost of traditional methods. Here we ...

Using UAV acquired photography and structure from motion ...

The aim of this investigation was to compare tree crown area obtained by the classical

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ground survey methods (GS) and by the unmanned aerial vehicle (UAV) technology. The study was carried out in Prioksko-Terrasny Biosphere Natural Reserve (Moscow region, Russia) on permanent sampling plot of 1 ha.

Ground Surveys Versus UAV Photography:

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The Comparison of ... Study

ABSTRACT The use of Unmanned Aerial Vehicles (UAVs) and Structure from Motion (SfM) techniques can contribute to increase the accessibility, accuracy, and resolution of Digital Elevation Models (DEMs) used for soil erosion monitoring.

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The growing popularity of unmanned aerial vehicles (UAVs), informally known as drones, opened new opportunities for geoscientists to monitor the Earth at unprecedented spatial and temporal resolutions. Geophysicists use UAVs to

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observe underground features, geologists and geomorphologists utilize drones to carry out detailed survey of Earth ' s surface, hydrologists apply UAVs to observe water bodies and conduct hydrometric measurements, and meteorologists use drones to measure weather characteristics and air quality. The articles presented in this

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topical issue of Pure and Applied Geophysics focus on the range of applications of UAVs in geosciences, forming a selection of case studies from different geographic regions. Two papers address the issue of investigating subsurface processes, including magnetic survey and post-explosion imprint on physical terrain.

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Three articles present examples of high-resolution mapping of landforms, ranging from a highly dynamic aeolian environment to stable granite tors. Water-related problems, covering fluvial geomorphologic and hydrographic studies with the use of UAVs, are solved in other three papers of this topical issue. A number of

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meteorological variables is investigated in four articles, including UAV-based snow characterization, atmospheric aerosol monitoring and cloudiness. Finally, this book includes two technical reports on both technological and historical aspects of the UAV-assisted research in geosciences. Since this volume of Pure and Applied

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Geophysics puts an emphasis on case studies on a diverse usage of drones in Earth sciences it may be interesting not only for researchers, but particularly for postgraduate students in geophysics, geology, geography or civil engineering. Practitioners may also find this topical issue useful for implementing the UAV survey as a tool for

Download Ebook Unmanned Aerial Vehicle mitigating the risk of selected geohazards.

Unmanned Aerial Systems: Theoretical Foundation and Applications presents some of the latest innovative approaches to drones from the point-of-view of dynamic modeling, system analysis, optimization, control, communications, 3D-mapping,

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search and rescue, surveillance, farmland and construction monitoring, and more. With the emergence of low-cost UAS, a vast array of research works in academia and products in the industrial sectors have evolved. The book covers the safe operation of UAS, including, but not limited to, fundamental design, mission and path

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planning, control theory, computer vision, artificial intelligence, applications requirements, and more. This book provides a unique reference of the state-of-the-art research and development of unmanned aerial systems, making it an essential resource for researchers, instructors and practitioners. Covers some of the most

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innovative approaches to drones Provides the latest state-of-the-art research and development surrounding unmanned aerial systems Presents a comprehensive reference on unmanned aerial systems, with a focus on cutting-edge technologies and recent research trends in the area

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First used in military applications, unmanned aerial vehicles are becoming an integral aspect of modern society and are expanding into the commercial, scientific, recreational, agricultural, and surveillance sectors. With the increasing use of these drones by government officials, business professionals, and civilians, more research is

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needed to understand their complexity both in design and function. Unmanned Aerial Vehicles: Breakthroughs in Research and Practice is a critical source of academic knowledge on the design, construction, and maintenance of drones, as well as their applications across all aspects of society. Highlighting a range of pertinent topics such

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as intelligent systems, artificial intelligence, and situation awareness, this publication is an ideal reference source for military consultants, military personnel, business professionals, operation managers, surveillance companies, agriculturalists, policymakers, government officials, law enforcement, IT professionals,

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academicians, researchers, and graduate-level students.

This book is one out of 8 IAEG XII Congress volumes, and deals with Landslide processes, including: field data and monitoring techniques, prediction and forecasting of landslide occurrence, regional

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landslide inventories and dating studies, modeling of slope instabilities and secondary hazards (e.g. impulse waves and landslide-induced tsunamis, landslide dam failures and breaching), hazard and risk assessment, earthquake and rainfall induced landslides, instabilities of volcanic edifices, remedial works and mitigation measures,

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development of innovative stabilization techniques and applicability to specific engineering geological conditions, use of geophysical techniques for landslide characterization and investigation of triggering mechanisms. Focuses is given to innovative techniques, well documented case studies in different environments,

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critical components of engineering geological and geotechnical investigations, hydrological and hydrogeological investigations, remote sensing and geophysical techniques, modeling of triggering, collapse, run out and landslide reactivation, geotechnical design and construction procedures in landslide zones,

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interaction of landslides with structures and infrastructures and possibility of domino effects. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the

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congress: environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable

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Planning and Landscape Exploitation.
Applied Geology for Major Engineering
Projects. Education, Professional Ethics and
Public Recognition of Engineering Geology.
Preservation of Cultural Heritage.

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Remote Sensing of Geomorphology, Volume 23, discusses the new range of remote-sensing techniques (lidar, structure from motion photogrammetry, advanced satellite platforms) that has led to a dramatic increase in terrain information, and as such provided new opportunities for a better understanding of surface morphology and

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related Earth surface processes. As several papers have been published (including paper reviews and special issues) on this topic, this book summarizes the major advances in remote sensing techniques for the analysis of Earth surface morphology and processes, also highlighting future challenges. Useful for MSc and PhD

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students, this book is also ideal for any scientists that want to have a single volume guideline to help them develop new ideas. In addition, technicians and private and public sectors working on remote sensing will find the information useful to their initiatives. Provides a useful guideline for MSc and PhD students, scientists, technicians, and

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land planners on the use of remote sensing in geomorphology Includes applications on specific case studies that highlight issues and benefits of one technique compared to others Presents future trends in remote sensing and geomorphology

Urban Geomorphology: Landforms and

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Processes in Cities addresses the human impacts on landscapes through occupation (urbanization) and development as a contribution to anthropogenic geomorphology or "anthropogeomorphology." This includes a focus on land clearance, conservation issues, pollution, decay and erosion, urban climate,

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and anthropogenic climate change. These topics, as well as others, are considered to shed more light on the human transformation of natural landscapes and the environmental impacts and geomorphological hazards that environmental change can encompass. Its multidisciplinary approach is appropriate

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for audiences from a range of disciplines and professions, from geologists, conservationists, and land-use planners to architects and developers. Urban Geomorphology not only transcends disciplines, but also covers varied spatial-temporal frameworks and presents a diverse set of approaches and solutions to human

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impacts and geomorphological hazards within urban landscapes. Features a cross-disciplinary perspective, highlighting the importance of the geosciences to environmental science, engineering, and public policy Focuses on the built environment as the location of concentrated human impacts and change Provides an

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international scope, including case studies from urban areas around the world

This book discusses the latest advances and applications in geospatial technologies and earth resources for mine surveying and civil engineering. It also discusses mineral resources management and assesses many

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techniques such as unmanned aerial vehicles/drones, ground-penetrating radar, geographic information system (GIS) and GIS-based machine learning. The book gathers the proceedings of the International Conference on Geo-Spatial Technologies and Earth Resources (GTER 2017), which was co-organized by the Hanoi University

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of Mining and Geology (HUMG) and the International Society for Mine Surveying (ISM) and held in Hanoi, Vietnam, on October 5 – 6, 2017. GTER 2017 is technically co-sponsored by the Vietnam Mining Science and Technology Association (VMST), Vietnam Association of Geodesy, Cartography and Remote

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Sensing (VGCR), Vietnam National Coal-Mineral Industries Holding Corporation Limited (VINACOMIN), and the Dong Bac Corporation (NECO). The event is intended to bring together experts, researchers, engineers, and policymakers to discuss and exchange their knowledges and experiences with modern geospatial

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technologies, recent advances in mining and tunneling, and the geological and earth sciences. Given its breadth of coverage, the book will appeal to scientists in the field as well as professionals interested in related technological applications.

Small Format Aerial Photography and UAS

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Imagery: Principles, Techniques and Geoscience Applications, Second Edition, provides basic and advanced principles and techniques for Small Format Aerial Photography (SFAP), focusing on manned and unmanned aerial systems, including drones, kites, blimps, powered paragliders, and fixed wing and copter SFAP. The

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authors focus on everything from digital image processing and interpretation of data, to travel and setup for the best result, making this a comprehensive guide for any user. Nine case studies in a variety of environments, including gullies, high altitudes, wetlands and recreational architecture are included to enhance

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learning. This new edition includes small unmanned aerial systems (UAS) and discusses changes in legal practices across the globe. In addition, the book presents the history of SFAP, providing background and context for new developments. Provides background and context for new developments in SFAP Covers the legal

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implications for small format aerial systems in different countries Discusses unmanned aerial systems (drones) and their applications Features new case studies for different applications, including vineyard monitoring and impacts of wind energy

The 15 chapters in this book explore the

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theoretical as well as a number of technical research outcomes on all aspects of UAVs. UAVs has widely differing applications such as disaster management, structural inspection, goods delivery, transportation, localization, mapping, pollution and radiation monitoring, search and rescue, farming, etc. The advantages of using UAVs

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are countless and have led the way for the full integration of UAVs, as intelligent objects into the IoT system. The book covers cover such subjects as: Efficient energy management systems in UAV based IoT networks IoE enabled UAVs Mind-controlled UAV using Brain-Computer Interface (BCI) The importance of AI in

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realizing autonomous and intelligent flying IoT Blockchain-based solutions for various security issues in UAV-enabled IoT The challenges and threats of UAVs such as hijacking, privacy, cyber-security, and physical safety.

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