

Gottfried Mandlbauer

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Durch die extremen Hochwasserereignisse der jüngsten Zeit ist der Bedarf an präzisen Überschaubarkeitsmodellen, genauen, verlässlichen Vorhersagen durch hydrodynamisch-numerische Modellierung schrien daher nur auf Basis einer exakten geometrischen Grundlage erfüllt werden. Als Methode zur 3D-Erfassung von Überschaubarkeitsmodellen hat sich Airborne Laser Scanning (ALS) immer mehr durchgesetzt, da es hohen Automatisierungsgrad, hohe Messpunktdichte und gute Höhenpräzision verbindet. Die großen Datenmengen stellen allerdings eine Herausforderung für den Aufbau des Wasserlauf-Geländemodells und für dessen Anwendung in der Strömungsmodellierung dar. Der Autor Gottfried Mandlbauer gibt einleitend einen Überblick über die Grundlagen der Gelände- und Strömungsmodellierung und beschreibt anschließend den Aufbau eines präzisen Modells der Fluss-Topographie. Ein Schwerpunkt ist der Datenaufbereitung von Geländemodellen gewidmet, mit dem Ziel, die Datenmenge so weit wie möglich zu reduzieren, ohne dabei relevante topographische Details zu verlieren. Praktische Beispiele zeigen, dass die vorgestellten Ansätze eine Verbesserung für hydraulische Simulationen bringen.

Topographische Modelle für Anwendungen in Hydraulik und Hydrologie

Gottfried Mandlbauer

Gottfried Mandlbauer, Dipl.-Ing., Dr. techn., Studium des Vermessungswesens an der TU Wien, Forschungswissenschaft am Institut für Photogrammetrie und Fernerkundung, Schwerpunkt Digitale Geländemodelle und Vernetzung von landschaftlichen Geländehöhenmodellen, Spezialgebiet DGM-Anwendungen für hydraulische Modellierung, Promotion im Jahr 2006.

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Jie Shan, Charles K. Toth



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Topographic Laser Ranging and Scanning Jie Shan, Charles K. Toth, 2017-12-19 A systematic in depth introduction to theories and principles of Light Detection and Ranging LiDAR technology is long overdue as it is the most important geospatial data acquisition technology to be introduced in recent years. An advanced discussion of this text fills the void. Professionals in fields ranging from geology, geography and geoinformatics to physics, transportation and law enforcement will benefit from this comprehensive discussion of topographic LiDAR principles, systems, data acquisition and data processing techniques. The book covers ranging and scanning fundamentals and broad contemporary analysis of airborne LiDAR systems as well as those situated on land and in space. The authors present data collection at the signal level in terms of waveforms and their properties at the system level with regard to calibration and georeferencing and at the data level to discuss error budget, quality control and data organization. They devote the bulk of the book to LiDAR data processing and information extraction and elaborate on recent developments in building extraction and reconstruction, highlighting quality and performance evaluations. There is also extensive discussion of the state of the art technological developments used in filtering algorithms for digital terrain model generation, strip adjustment of data for registration, co-registration of LiDAR data with imagery, forestry inventory and surveying. Readers get insight into why LiDAR is the effective tool of choice to collect massive volumes of explicit 3D data with unprecedented accuracy and simplicity. Compiled by leading experts talking about much of their own pioneering work, this book will give researchers, professionals and senior students novel ideas to supplement their own experience and practices.

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