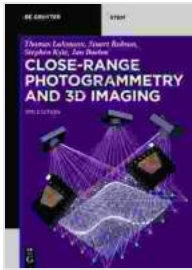


Close Range Photogrammetry and 3D Imaging: Unlocking the Secrets of Measurement and Visualization



Close-Range Photogrammetry and 3D Imaging (De Gruyter STEM) by Jan Boehm

★★★★★ 5 out of 5

Language : English
File size : 104036 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 803 pages



In today's digital age, capturing and analyzing images is more important than ever before. Close range photogrammetry and 3D imaging technologies offer powerful tools for accurately measuring and visualizing objects, making them essential for a wide range of applications across various industries.

What is Close Range Photogrammetry?

Close range photogrammetry is a technique that uses multiple photographs of an object taken from different angles to create a 3D model. This process involves capturing images of the object from different perspectives, then using specialized software to stitch them together and generate a highly accurate 3D representation.

Unlike traditional photogrammetry, which is used to create maps and models of large areas, close range photogrammetry is designed for capturing small objects or scenes with high precision. This makes it an ideal tool for applications such as:

- Industrial inspection and quality control
- Cultural heritage documentation and preservation
- Forensic investigation
- Medical applications
- Product design and development

The Benefits of 3D Imaging

3D imaging offers a range of benefits over traditional 2D photography, including:

- **Accuracy:** 3D models provide accurate measurements and representations of objects, allowing for precise analysis and documentation.
- **Visualization:** 3D models can be viewed from any angle, providing a comprehensive understanding of the object's shape and structure.
- **Versatility:** 3D models can be used for a variety of applications, from design and manufacturing to medical diagnostics and education.

De Gruyter STEM: Your Source for Expertise in Close Range Photogrammetry and 3D Imaging

De Gruyter STEM is a leading academic publisher specializing in science, technology, engineering, and mathematics. Our extensive catalog includes

a wide range of books and journals covering the latest advances in close range photogrammetry and 3D imaging.

Our publications are written by renowned experts in the field and provide comprehensive overviews of the latest techniques and applications.

Whether you're a researcher, practitioner, or student, De Gruyter STEM has the resources you need to stay up-to-date on this rapidly evolving field.

Some of our most popular titles include:

- **Close-Range Photogrammetry and 3D Imaging:** A comprehensive guide to the principles and applications of close range photogrammetry, covering topics such as camera calibration, image matching, and 3D reconstruction.
- **3D Imaging for Cultural Heritage:** Explores the use of 3D imaging technologies for documenting and preserving cultural heritage sites and artifacts.
- **Forensic Applications of Photogrammetry:** Provides an overview of the use of photogrammetry in forensic investigations, including crime scene reconstruction and evidence analysis.
- **Medical Applications of 3D Imaging:** Examines the use of 3D imaging in medical diagnosis, treatment planning, and surgical navigation.

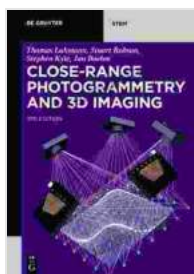
Unlock the Power of Close Range Photogrammetry and 3D Imaging with De Gruyter STEM

If you're interested in learning more about close range photogrammetry and 3D imaging, we encourage you to explore our catalog of publications. Our

books and journals offer a wealth of knowledge and expertise to help you master these powerful technologies.

Visit our website today to learn more and Free Download your copy of Close-Range Photogrammetry and 3D Imaging: A Comprehensive Guide.

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