



International Society for Photogrammetry and Remote Sensing

- Publications
- Archive
- Volume
- Full Text Search
- Title and Author Search
- Annals
- ISPRS Journal
- ISPRS Journal Geo-Info
- ISPRS eBulletin
- ISPRS Highlights
- Book Series
- Brochure
- ISPRS Profile
- Annual Reports
- Related Publications
- Booklets

Volume XL-3

Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-3, 133-137, 2014
www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XL-3/133/2014/
doi: 10.5194/isprsarchives-XL-3-133-2014

Identification of Errors in 3D Building Models by a Robust Camera Pose Estimation

D. Iwaszczuk^{1,2} and U. Stilla¹

¹Technische Universität München, Photogrammetry & Remote Sensing, Arcisstr. 21, 80333 Munich, Germany

²Technische Universität München, Institute of Astronomical and Physical Geodesy, Arcisstr. 21, 80333 Munich, Germany

Keywords: Building, Model, Exterior, Orientation, Estimation, Thermal, Infrared, Sequences

Abstract. This paper presents a method for identification of errors in 3D building models which are results of inaccurate creation process. Error detection is carried out within the camera pose estimation. As observations, parameters of the building corners and of the line segments detected in the image are used and conditions for the coplanarity of corresponding edges are defined. For the estimation, the uncertainty of the 3D building models and image features are taken into account.

[Conference Paper](#) (PDF, 700 KB)

Citation: Iwaszczuk, D. and Stilla, U.: Identification of Errors in 3D Building Models by a Robust Camera Pose Estimation, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-3, 133-137, doi: 10.5194/isprsarchives-XL-3-133-2014, 2014.

[Bibtex](#) [EndNote](#) [Reference Manager](#) [XML](#)