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ISPRS Foundat



Volume XXXIX-B1

Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXIX-B1, : www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XXXIXdoi:10.5194/isprsarchives-XXXIX-B1-235-2012 © Author(s) 2012. This work is distributed under the Creative Commons Attribution 3.0 License.

IMAGE REGISTRATION USING TERRAIN RELIEF CORREC RIGOROUS SENSOR MODELS

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Keywords: CCD-lines, Band registration, Height

Abstract. Multiple CCDs are used in space-borne camera system to have multiple even in one band. Due to design constraints, the multiple CCDs may be placed at dif plane. In such case, each band or each CCD in a band has different look angle, an effect" when registration between images from different CCD is required. Since the p of the target when the baseline is fixed, the displacement of each target for the regidepending on the height of each target in the images. Hence, the registration bet cannot be achieved using simple affine transform, and rather requires higher orde warping. In this paper, we suggest the band registration method which includes th sensor model with DEM data. Since the parallax effect is compensated in this appro can be adopted for the robustness of algorithm. In the proposed approach, the slavgeometry, which has same geometry with master image. In order to realize such ap each band and DEM data were used. The difference of proposed approach with con the geometry of master image is kept. The experiment results demonstrated that correct the displacement caused by parallax effect

Conference Paper (PDF, 630 KB)

Citation: Kim, H. and Kim, M.-G.: IMAGE REGISTRATION USING TERRAIN RELIEF COR SENSOR MODELS, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXIX-B1, 2 XXXIX-B1-235-2012, 2012. ↑ Top | Last Change 01-Apr-2013 (Problems and/or queries, send e-mail: 🔤 wm) | © ISPRS |