

DAILY ASSESSMENT FORMAT

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|--------------------|--|---------------------|-----------------------------|
| Date: | 1 st July 2020 | Name: | Sushmitha R Naik |
| Course: | Satellite Photometry And Its Courses | USN: | 4AL17EC090 |
| Topic: | Introduction to Satellite photogrammetry | Semester & Section: | 6 th sem & B sec |
| Github Repository: | Sushmitha_naik | | |

FORENOON SESSION DETAILS

Image of session

INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN

BRANCHES OF PHOTOGRAMMETRY

Based on platform:

- ☐ Ground Based
- ☐ UAV/drone based
- ☐ Aerial Photogrammetry
- ☐ Satellite Photogrammetry

Close Range Photogrammetry

Far Range Photogrammetry

Terrestrial Aerial Satellite

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1K 12 SHARE SAVE ...

Top chat

TAMILSELVI N present mam

DHIMANJYOTI THAKURIA present Ma'am

prashant kumar present mam from Prashant Kumar, dept C.S, Mtech in JNU, delhi

anand kelagade present mam

satheshkumar Present mam

Skip Sri deepthi present mam

Tanmaya Harichandan present mam

Abhishek semwal present

Samrat Are you guys serious? Why are you posting present?

Rishi Kumar Gupta Present Mam

Mohammad Asif present Ma'am Please mark my attendance 😊

SUSHMITHA NAIK

Say something... (slow mode is on)

0/200

HIDE CHAT

DEHRADUN

Date of acquisition: 28-JAN-1997

Date of acquisition: 26-NOV-96

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1.3K 15 SHARE SAVE ...

Top chat

from first session... but it is showing absent... plz ... give attendance

Sai Bharadwaj sai bharadwaj present

sumit kamble present mam

swarna silpa dwaram present mam

Pratap Pagare present mam

Mritunjay bharti registration no.2020610145512, Name: Mritunjay kumar bharti, college > SRIMT, lucknow

Geo E-learning Sukamal Maity

Sunil Kumar Behera afrin tu to bewafa he

Joel V John @Gayathri Gopu evidunaaa? 😊

Gunjan Raghav does higher ions concentrated regions in the atmosphere acts as an obstacle or not? (in case of high altitude monitoring)

akash present, Akash Verma

SUSHMITHA NAIK

Say something... (slow mode is on)

0/200

HIDE CHAT

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image acquisition methodology.....contd

- The start position is the projection of the center of row 0 (of an image with m columns and n rows) on the ground.
- Location of the perspective center relative to the scan line is constant for each line as the interior orientation parameters and focal length are constant for a given scan line.
- Since the motion of the satellite is smooth and linear over the entire length of the scene, the perspective centers of all scan lines in a scene are assumed to lie along a smooth line
- Since, the satellite is highly stable during acquisition of the image, the exterior orientation parameters can be assumed to vary in a systematic fashion.

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5:30 watching now • Started streaming 56 minutes ago

Top chat

- siddhi naik siddhi naik present
- Rachit Choudhary present
- 徐丁与丹丹丁丁 am going on bunk goodbye
- Harlom Satapathy Satellite sensing in space is depend upon what?
- shridhar Kulkarni present mam
- Dattatray Jagdale present mam
- Swarupa Parlikar What does off nadir viewing mean?
- Pronay Sarkar Reg no.
- sidharth panda i would be very helpful if the content is delivered in easy to understand manner mam
- Tridev Rajwar Good evening
- 013_Anirudh PRESENT
- SUSHMITHA NAIK Say something... (slow mode is on)

0/200

HIDE CHAT

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Orthorectification process of remote sensed image data

Orthographic Projection
www.satimagingcorp.com

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1.5K 32 SHARE SAVE

Top chat

- V Srikar present mam
- Keshavi Devi thank you mam
- Madhur Khurana present mam
- AKASH KUMAR SINGH present maam
- Naresh S C B B
- Dara Manjunath Thank u ma'am
- 053_Umang sudani c.b.b
- piyush kumar 1=c, 2=b, 3=b
- Vaibhav Mishra Vaibhav Mishra, Bit bangalore
- Anushka Pileta 1. C 2. B 3 B
- Akshay Masetty c.b.b
- Elangovan Singaram c.b.b
- Shashank Holla present
- SUSHMITHA NAIK Say something... (slow mode is on)

0/200

HIDE CHAT

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3D polynomial model

- 3D polynomial model is used to model the relationship between the image and the object spaces.
- Choice of the polynomial order depends on the type of terrain, available number of GCP, and the stability of the satellite sensor in space.

3D affine model

- 3D affine model can be performed by limiting the polynomial model to the first order
- 3D affine model has high integrity to represent the relationship between the image and the object spaces, especially when the model is applied to data obtained from highly stable satellite sensors

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1.4K 27 SHARE SAVE

Top chat

- Damayanti Khaund present mam.
- Akhtar Ali parsent mamq
- nital kothari
- Jayalakshmi Remesan present
- ROSHAN KUMAR present mam
- anandhu r nair anandhu r nair present ma'am
- ankita saha Ankita Saha, Cad center, Jadavpur University...present mam
- Shaik Afroz basha mam can you explain a bit about base to height ratio and how it is obtained
- Nikita Lote
- Souhardya Bose how to mark present mam?
- Naveen Are all the pixels of the camera used for photogrammetry are coplanar? and please name some books for reference of satellite photogrammetry?
- SUSHMITHA NAIK Say something... (slow mode is on)

0/200

HIDE CHAT

Report:

The primary mission goal of TH-1 is for topographic mapping at 1:50,000 scale without GCPs. In order to achieve its goal, the on-orbit calibration camera parameters based on LMCCD image and EFP Multi-functional bundle adjustment are put forward and realized in ground image processing, and the initial interior and exterior orientation parameters have been further refined. Using the orientation parameters, RPCs of three-line arrays image are generated. Based on stereo image with RPCs, the location accuracy of TH-1 is assessed systematically using many CPs from 5 testing fields. In this paper, the location performance of 1st satellite is presented without GCPs and with different number of GCPs. The results indicate that the horizontal accuracy and the vertical accuracy can fulfil for topographic mapping at 1:50,000 scale without GCPs. The location performance of 2nd satellite is equivalent with 1st satellite, and location performance of 3rd satellite is ongoing evaluating systematically. In addition, variety of products will satisfy for different users in the field of photogrammetry and remote sensing.