

DAILY ASSESSMENT FORMAT

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| Date: | 30/06/2020 | Name: | PREETHAM S RAI |
| Course: | IIRS Outreach Program on Satellite Photogrammetry and it's Application | USN: | 4AL18EC040 |
| Topic: | Concepts of Stereophotogrammetry | Semester & Section: | 4 th sem 'A' section. |
| Github Repository: | Psraipreetham | | |

FORENOON SESSION DETAILS

Image of session



In today's session I have learnt about

Stereophotogrammetry

Stereophotogrammetry involves estimating the 3D coordinates of points on an object, employing measurements made in two or more photographic images taken from different positions.

Parallax

Apparent shift in the position of object due to shift in the position of observation.

Depth perception

Methods of judging depth



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Monoscopic method

Examples

Relative size of objects,Hidden objects,Shadows

Stereoscopic method

It is a technique used to enable a three-dimensional effect, adding an illusion of depth to a flat image.

Fusion

Stereopsis

Three basic types of Stereoscopes:Pocket,Mirror,Scanning

Viewing Stereophotographs in Digital Environment

Basic requirements for 3D stereo-viewing

Methods of stereo display in digital environment:

Split screen view

Anaglyph view

Separation by Polarization

Alternating images

Understanding the rotation matrix

Orientation of the Stereopair

Recreating the same condition as existed at the time of photography.

Interior Orientation

Relative Orientation

Absolute Orientation

Exterior Orientation

Digitization in 3D: Measuring Capability



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