OI/07/2020

Concepts of Satellite Photogrammetry:

Digital Photogrammetric:

Orthorectification: · Ortho image:

Photogramme fric process is fully automated.

Digital photogrammetry is called softcopy photogrammetry. · Handware components of a Digital Photogrammetric (i) Enabling orientation comprises position of attitude (ii) on-board GPS receivers deturnine the satellite epheneris i.e. corners position.

Software nequirements of a Digital Photogrammetric workflow. · Standard Requirements.

· Digital Rectification

· Visualization. · Automation:
· Commercial off the shelf Photogrammetric Software,
· PCI Geomatica: Geomatics Orthogram. · BAE System: SOCET: SET open source software enabling photogrammetric software. Change of penspective centures along the

Satellite Photography:
-) Advantages of imaging from space:  Symptic view.  Idance smath, nebeativity.
-> General Workflow:
· Sterrer Imaging of topographic mapping.  -) Optimum base to height ratio is 0.6 to 1.0  -) Atmospheric effects Confraction, optical thickness, become more significant at highter look angles.
· Satellites:  -> Interior Orientation:  -> Exterior Orientation.
· Light mays in a bundle defined by the sensor are almost parallel-lessening the importance of the satellite
· Physical Seasor Model:  · Rational Function Model:  · 3D polynomial model.  · 3D offine model.  · Companison of model:

· Inclination Angle of a Stereo scene:
Tiennation Angle of a stored scene
Nadio: Point directly below the carriera.
· Tri - Steven Imagery: Tri - Steven acquistus
Toi - steren acquistus
· Stereo Coverage:
· Across-toack stones.
· Stereo Coverage:  · Across-track stereo.  · Along - track stereo.
· Across-track stero: The pointing of the imaging servor is oriented off - nadio in the across track direction
is oriented off - nadio in the across track director
· Advantages · Limitations
. Allong track stono: Steneo converge is obtained
dunny the flight along the same orbit either by
. Along track stono: Steneo converge is obtained dunny the flight along the same orbit either by . Advantages:
. DSM nefined
· Image acquistion methodology:
· Image acquistion methodology:  The satellites collect the images by scorning along a line which is alled the scan line.
along a line which is alled the scan line,
· Triangulation:
· DATA Processing:
· Oxbit Characteristics:
· Epheryeris Vata:
· Ephemeris Vala: · Modelling Satellite Sensor Orientation: