· Photogrammetric products from Satellite stereo images AKSHATHA . Y.E 4ALI8ECO05. > DEM : > Triangulan Irregular Network (TIN) > Grid (regular spaced). > Contairs. > Contavos. > Gray some image. > Shaded nelief image. > Perspective view. > 3-d-view > Uses of DEM: · Desivation of contour lines: · 00 thophoto generation.

· 3D- GIS.

· Volume deturningtion. · Generation of slope models. · Voban planning and utility planning > DEM Precision:

> Accurate profiling during leaf-on conditions

> Automatic DTM point collection:

Image Maching Techniques.

> Area based matching.

> Feature based matching.

> Relation based matching. Area based matching: The method defirmines the correspondence blu I two maye areas according to the similarity of their gray level values

Appointment Notes Work to dis
The cross correlation without pain, No Gair
· Automatic DTM point collection:
· Cross Correlation:
$S = \frac{1}{12} \left[g_1(C_1 \sigma_1) + g_1 \left[g_2(C_2 \sigma_2) - R_2 \right] \right]$
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· Least Sources Conselation:
· deast squares Correlation:
$g_2(c_2\sigma_2) = ho + h_1g_1(c_1, \sigma_1)$
$C_2 = \alpha_0 + \alpha_1 C_1 + \alpha_2 \sigma_1$ $(C_2 = \alpha_0 + \alpha_1 C_1 + \alpha_2 \sigma_1)$
22 b6+b1C1+b201
· Feature Based Matching: > Feature based matching determines the correspondence blue two image features. > Image Pyramid:
· Ortho-rectification:
Planinetrically correct orthornage. Orthorectification creates planinetrate worect inages, which display no relief displacement.
· Advantages and uses of Digital Oothophotos. · Product which on be readily interpreted like a photograph. · Mosaics.

Notes Work to do.
Inputs for generating an Orthophoto: The 11p Jata required for orthophoto generation using verial photographs Chandcopy Sigifal Focal length Lens distortions
the 90 data neguised for osthophoto
a regation using aerial photography CHandcopy / digital
Foral length
lens déstostions.
cannot control paints.
. Ground Control points Digital Elevation Model.
Tobut data required for orthophoto generation
. Input data required for orthophoto generation using Satellite techniques.
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