Assignment 8

The due date for submitting this assignment has passed. Due on 2019-10-23, 23:59 IST. As per our records you have not submitted this assignment.

1) Base of image pyramid contains:  
- Low resolution  
- High resolution  
- Intensity  
- Blurred portion

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
High resolution

2) The High pass filters highlight:  
- Low intensity components  
- Mid intensity components  
- High intensity components  
- All components

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
High intensity components

3) In the process of image classification, which of the following methods results in a greater accuracy of classes within an image actually matching land use patterns on the ground?  
- Manual/supervised by a user

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https://onlinecourses.nptel.ac.in/noc19_ce38/unit?unit=48&assessment=69
1. SAR Interferometry (InSAR) Technique (unit unit=48&lesson=50)
2. Image merging and mosaicking techniques (unit unit=48&lesson=51)
3. Applications of Image Analysis (unit? unit=48&lesson=52)
5. Quiz: Assignment 8 (assessment? name=69)

### FEEDBACK FORM

- **SAR Interferometry (InSAR) Technique**
- **Image merging and mosaicking techniques**
- **Applications of Image Analysis**
- **Limitations and future of Digital Image Processing Technique**
- **Quiz: Assignment 8**

### Questions

1. Robotic classification
2. Fully automated
3. Unprocessed image interpretation

   - No, the answer is incorrect.
   - Score: 0
   - Accepted Answers: Manual/Supervised by a user

4. In which technique, histogram of the original image is redistributed to produce a uniform population density?
   - Linear contrast stretch
   - Non-linear contrast stretch
   - Histogram equalization
   - Gamma stretch

   - No, the answer is incorrect.
   - Score: 0
   - Accepted Answers: Histogram equalization

5. An image enhancement technique that attempts to improve the contrast in an image by stretching the range of intensity values it contains to span a desired range of values is called?
   - Non-histogram Equalization
   - Non-linear contrast stretching
   - Histogram Equalization
   - Linear contrast stretching

   - No, the answer is incorrect.
   - Score: 0
   - Accepted Answers: Linear contrast stretching

6. The distance between the two satellites (or orbits) in the plane perpendicular to the orbit is called the interferometer:
   - Polyline
   - Vector
   - Line
   - Baseline

   - No, the answer is incorrect.
   - Score: 0
   - Accepted Answers: Baseline

7. Multi-sensor image......... is the process of combining relevant information from two or more images into a single image:
   - Mosaic
   - Fusion
   - Collage
   - Assortment

   - No, the answer is incorrect.
   - Score: 0
   - Accepted Answers: Fusion
8) Different rows of a RADAR image are associated with different:

- Intensity
- Slant range location
- Azimuth location
- Elevation

No, the answer is incorrect.
Score: 0
Accepted Answers: Azimuth location

9) Each colour cycle in a SAR interferogram represents elevation difference of:

- $\lambda$
- $2\lambda$
- $\lambda/2$
- $2/\lambda$

No, the answer is incorrect.
Score: 0
Accepted Answers: $\lambda/2$

10) Shadows in a satellite image often _____ to calculate height of an object.

- Assist
- Hinder
- Do not affect
- Aggravate

No, the answer is incorrect.
Score: 0
Accepted Answers: Assist