

Unit 7 - Week 5

Course outline

How does an NPTEL online course work?

Week 0 Assignment 0

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Week 2

Week 3

Week 4

Week 5

● Lecture 21 : Data Quality and Measures

● Lecture 22 : Positional Accuracy and Source of Errors

● Lecture 23 : Classification Accuracy and Pixel Errors

● Lecture 24 : Spatial Data Editing and Transformations

● Lecture 25 : Map Display and Visualization in GIS

● Week 5 Lecture material

○ Quiz : Week 5 Assignment 5

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Week 5 Assignment 5

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-03-04, 23:59 IST.

1) Degree to which data represents the reality is known as _____

A) Completeness
B) Timeliness
C) Accuracy
D) Precision

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
C)

1 point

2) Which of the following is not a factor affecting reliability of spatial data?

A) Age of data
B) Map scale and resolution
C) Cost and accessibility
D) Computation algorithm

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
D)

1 point

3) $Npairs = 4*(P*Q) - 2*d*(P+Q)$ is a _____ for estimating error

A) Uncertainty elimination method
B) Bregt et al.'s method
C) Switzer's method
D) Error matrix method

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
C)

1 point

4) In an error matrix, users accuracy is the ratio of _____ to _____

A) Correctly classified pixels to total number of pixels
B) Correctly classified pixels to row total
C) Correctly classified pixels to column total
D) Correctly classified pixels to sum of non-diagonal elements

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
B)

1 point

5) _____ is the measure of agreement between observed accuracy and chance agreement

A) Overall accuracy
B) Omission error
C) Cohen's Kappa
D) Producers accuracy

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
C)

1 point

6) Which of the following errors cannot be corrected by Topology?

A) Polygons not closed
B) Map not georeferenced
C) Disconnected lines
D) Repeated ID codes

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
B)

1 point

7) Douglas-Peucker algorithm is an example for _____ editing method

A) Line simplification
B) Transferring features
C) Line densification
D) Line smoothing

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
A)

1 point

8) Considering the image, Omission error for Urban class would be _____ %.

LU Class	Urban	Vegetation	Water	Others	Row Total
Urban	850	12	30	36	928
Vegetation	19	810	5	18	852
Water	8	11	650	84	753
Others	24	57	22	850	953
Col. Total	901	890	707	988	3486

- A) 94.3
B) 5.7
C) 91.59
D) 8.40

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
B)

1 point

9) _____ method is used where geometric transformation of one data layer is stretched to meet another based on pre-defined locations

A) Coregistration
B) Georegistration
C) Nearest neighbourhood
D) Rubber sheeting

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
D)

1 point

10) _____ represents purity of a color

A) Saturation
B) Hue
C) Intensity
D) Brightness

- A)
 B)
 C)
 D)

No, the answer is incorrect.
Score: 0

Accepted Answers:
A)

1 point