

INSTRUCTIONS FOR ENMAP CONTEST

Dear colleagues,

as explained in our conference contribution (Braun et al. 2015), you should proceed as follows with the data downloaded from our website.

1. Develop a classification algorithm $A : f(x_i) \rightarrow l_x$
2. Train the algorithm A on $X = \{(x_i, l_x)\}$
3. Apply the algorithm A to y_i
4. Calculate the quality figures overall accuracy, completeness i , correctness i and quality i based on y_i
5. Apply the algorithm A to Im
6. Report the quality figures to the corresponding author and provide the classified image I (for control)

The data provided is structured as follows:

| | |
|---------|----------------------|
| x_i : | training_data |
| y_i : | evaluation_data |
| l_x | training_labels |
| l_y | evaluation_labels |
| Im : | image data |
| cm : | the classes colormap |

The authors of this paper will evaluate the quality figures reported for y_i by checking them on the provided results for Im . The authors possess an image with the X and y_i pixels' positions in the image. These positions are not available to contestants and cannot be made available. Thus, falsification of results is avoided.

Please provide an explanatory introduction into the functioning of the algorithm that you have developed, or provide the reference to a paper where you have published it.

REFERENCE:

Braun, A.C.; Weinmann, M.; Keller, S.; Müller, R.; Reinartz, P.; Hinz, S. (2015): The EnMAP contest: developing and comparing classification approaches for the Environmental Mapping and Analysis Programme - Dataset and first results. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XL-3/W3, pp. 169-175.