**Data Set Name:**Rice Dataset (Commeo and Osmancik)

**Abstract:** A total of 3810 rice grain's images were taken for the two species (Cammeo and Osmancik), processed and feature inferences were made. 7 morphological features were obtained for each grain of rice.

**Source:**

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**Relevant Information:**In order to classify the rice varieties (Cammeo and Osmancik) used, preliminary processing was applied to the pictures obtained with computer vision system and a total of 3810 rice grains were obtained. Furthermore, 7 morphological features have been inferred for each grain. A data set has been created for the properties obtained.

**Attribute Information:**

1. Area: Returns the number of pixels within the boundaries of the rice grain.

2. Perimeter: Calculates the circumference by calculating the distance between pixels around the boundaries of the rice grain.

3. Major Axis Length: The longest line that can be drawn on the rice grain, i.e. the main axis distance, gives.

4. Minor Axis Length: The shortest line that can be drawn on the rice grain, i.e. the small axis distance, gives.

5. Eccentricity: It measures how round the ellipse, which has the same moments as the rice grain, is.

6. Convex Area: Returns the pixel count of the smallest convex shell of the region formed by the rice grain.

7. Extent: Returns the ratio of the region formed by the rice grain to the bounding box pixels

8. Class: Commeo and Osmancik.

**Relevant Papers / Citation Requests / Acknowledgements:**

Cinar, I. and Koklu, M. (2019). Classification of Rice Varieties Using Artificial Intelligence Methods. International Journal of Intelligent Systems and Applications in Engineering, vol.7, no.3 (Sep. 2019), pp.188-194. <https://doi.org/10.18201/ijisae.2019355381>.