**Banknote Authentication**

**1) Source Details**

**Link to data:** <https://archive.ics.uci.edu/ml/datasets/banknote+authentication>

**Owner of database:** Volker Lohweg (University of Applied Sciences, Ostwestfalen-Lippe, volker.lohweg ‘@’ hs-owl.de)

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**Date received:** August, 2012

**2) About**

Data were extracted from images that were taken from genuine and forged banknote-like specimens. For digitization, an industrial camera usually used for print inspection was used. The final images have 400x 400 pixels. Due to the object lens and distance to the investigated object, gray-scale pictures with a resolution of about 660 dpi were gained. Wavelet Transform tool were used to extract features from images.

**3) Data Description**

1. **var:** Variance of Wavelet Transformed image (continuous)
2. **skew:** Skewness of Wavelet Transformed image (continuous)
3. **kurt:** Kurtosis of Wavelet Transformed image (continuous)
4. **ent:** Entropy of image (continuous)
5. **class:** (integer) 0 and 1

**4) Data file format**

**Data is in xlsx file format.** Originally present as text file which was converted to **xlsx file.**