

This project generates the texture features that can be extracted from the intensity histogram of the images obtained at <http://www.isp.appi.keio.jp>. This texture feature analysis considers seven features:

- average intensity level (MEN):
- contrast (CNT)
- the variance (VAR)
- skewness (SKW), which is a measure difference from the normal distribution
- kurtosis (KRT), the intensity found in local values
- energy (ENG)
- entropy (EPY)

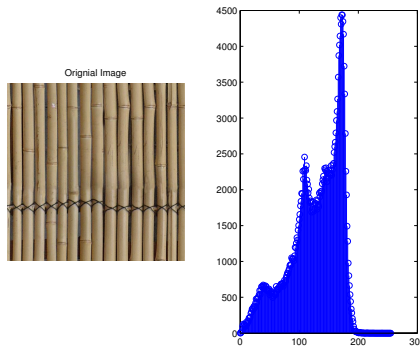


Figure 1: Image 1 and Intensity Histogram

Results of computations for figure 1  
 $MEN = 129.0866$ ,  $CNT = 1.8468e^4$ ,  $VAR = 1.8044e^3$ ,  $SKW = -1.0201e^{-5}$ ,  $KRT = 8.6429e^{-7}$ ,  $EGY = 0.0083$ ,  $EPY = 4.9694$

Results of computations for figure 2  $MEN = 112.3470$ ,  $CNT = 1.3846e^4$ ,  $VAR = 1.2238e^3$ ,  $SKW = -1.2279e^{-5}$ ,  $KRT = 1.9437e^{-6}$ ,  $EGY = 0.0085$ ,  $EPY = 4.9270$

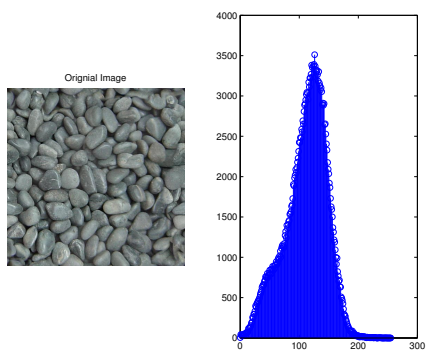


Figure 2: Image 2 and Intensity Histogram

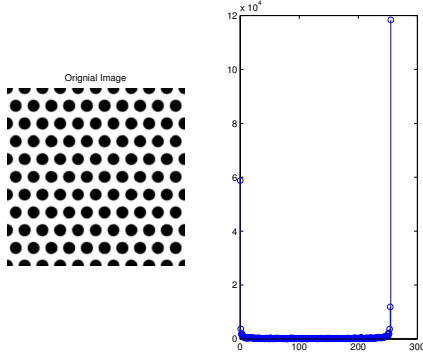


Figure 3: Image 3 and Intensity Histogram

Results of computations for figure 3  $MEN = 164.6297$ ,  $CNT = 4.0155e^4$ ,  $VAR = 1.3052e^4$ ,  $SKW = -3.9799e^{-7}$ ,  $KRT = 8.5457e^{-9}$ ,  $EGY = 0.2572$ ,  $EPY = 2.5825$

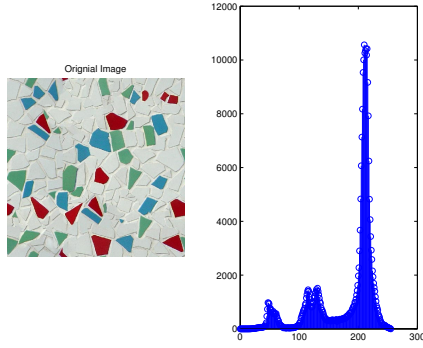


Figure 4: Image 2 and Intensity Histogram

Results of the computations for figure 4  $MEN = 186.7296$ ,  $CNT = 3.7173e^4$ ,  $VAR = 2.3053e^3$ ,  $SKW = -1.3701e^{-5}$ ,  $KRT = 7.9836e^{-7}$ ,  $EGY = 0.0202$ ,  $EPY = 4.4584$

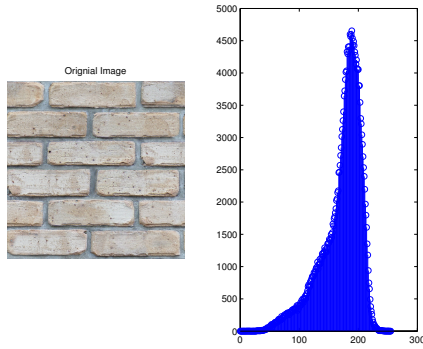


Figure 5: Image 5 and Intensity Histogram

Results of the computations for figure 5

$$MEN = 173.2691, CNT = 3.1135e^4, VAR = 1.1124e^3, SKW = -3.2631e^{-5}, KRT = 3.4588e^{-6}, EGY = 0.0109, EPY = 4.7532$$