

ImageStatistics - Apache NetBeans IDE 13

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Members <empty>

- Statistics
 - Statistics()
 - createHistogram(int[] scaledHistogram): byte[]
 - getHistogram(byte[][] inArray): int[]
 - getImageAverage(byte[][] inArray): float
 - getImageVariance(byte[][] inArray): float
 - getMaximumCount(int[] histogram): int
 - getMaximumValue(byte[][] inArray): int
 - getMinimumValue(byte[][] inArray): int
 - normalizeHistogram(int[] histogram, int imageSize): double[]
 - scaledImageHistogram(int[] originalHist, int maxcount, int maxGrayLevel):

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```
9  * @author jonat
10  */
11  public class Statistics {
12
13      // gets the minimum gray level in the image
14      public int getMinimumValue(byte[][] inArray) {
15          // initialize the first number in the 2-D array as the minimum
16          int minimum = inArray[0][0] & 0xFF;
17
18          int h = inArray.length;
19          int w = inArray[0].length;
20
21          for (int i = 0; i < h; i++) {
22              for (int j = 0; j < w; j++) {
23                  // compare all values to the minimum
24                  if ((inArray[i][j] & 0xFF) <= minimum)
25                      minimum = inArray[i][j] & 0xFF;
26              }
27          }
28
29          return minimum;
30      }
31
32
33      // gets the maximum gray level in the image
34      public int getMaximumValue(byte[][] inArray) {
35          // initialize the first number in the 2-D array as the maximum
36          int maximum = inArray[0][0] & 0xFF;
37
38      }
```

Output - ImageStatistics (run) X

```
251  0.00127224631043257
252  0.0011891958063359653
253  0.0016307721903063054
254  0.0017488173622587724
255  8.044559866390354E-4
The sum of all normalized histogram values: 0.9999999999999997
the image average is: 141.14131
the image variance is: 6035.841
the image std is: 77.69067395970059
the image minimum gray level is: 1
the image maximum gray level is: 255
the image range of gray levels is: 254(1 - 255)
BUILD SUCCESSFUL (total time: 0 seconds)
```

32/5 INS Windows (CRLF)