

# Anhang 1

Feature Index und Beschreibung für die im Dispatcher Modell verwendeten statistischen Merkmale.

## Glossar

### Hauptkategorien:

|                            |                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color_Distribution</b>  | bezieht sich auf statistische Merkmale der Farbverteilung                                                                                    |
| <b>Gradient_Features</b>   | bezieht sich auf statistische Kontrastmerkmale                                                                                               |
| <b>Color_Blob_Features</b> | bezieht sich auf statistische Merkmale der Flächigkeit, also Verteilung der Größe gleicher Flächen in farbreduzierten (geclusterten) Bildern |

### **Farbkategorien:**

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| <b>Red</b>   | bezieht sich nur auf den roten Farbkanal                                        |
| <b>Green</b> | bezieht sich nur auf den grünen Farbkanal                                       |
| <b>Blue</b>  | bezieht sich nur auf den blauen Farbkanal                                       |
| <b>GRAY</b>  | bezieht sich auf den Durchschnittswert des roten, grünen und blauen Farbkannels |

### **Statistische Kategorien:**

|                 |                                                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Min</b>      | Minimum der entsprechenden, in Unterkategorien definierten Werte in einem Bild                                      |
| <b>Max</b>      | Maximum der entsprechenden, in Unterkategorien definierten Werte in einem Bild                                      |
| <b>Mean</b>     | Durchschnittswert der entsprechenden, in Unterkategorien definierten Werte in einem Bild                            |
| <b>Median</b>   | Median der entsprechenden, in Unterkategorien definierten Werte in einem Bild                                       |
| <b>Std</b>      | Standardabweichung der entsprechenden, in Unterkategorien definierten Werte in einem Bild                           |
| <b>IQR</b>      | Inter Quantile Range (25. Bis 75. Perzentil) der entsprechenden, in Unterkategorien definierten Werte in einem Bild |
| <b>Skew</b>     | Schiefe der Verteilung der entsprechenden, in Unterkategorien definierten Werte in einem Bild                       |
| <b>Kurtosis</b> | Wölbung der Verteilung der entsprechenden, in Unterkategorien definierten Werte in einem Bild                       |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entropy</b>                     | Entropie der Verteilung der entsprechenden, in Unterkategorien definierten Werte in einem Bild                                                                                                                                                                                                                                                                                                                           |
| <b>Kontrastkategorien:</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sobel</b>                       | Die Bilder wurden mit einem Sobel-Filter vorverarbeitet                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Scharr</b>                      | Die Bilder wurden mit einem Scharr-Filter vorverarbeitet                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Laplace</b>                     | Die Bilder wurden mit einem Laplace-Filter vorverarbeitet                                                                                                                                                                                                                                                                                                                                                                |
| <b>Magnitude</b>                   | Aus den mit dem jeweils angegebenen Filter vorverarbeiteten Bildern wurden die x- und die y-Komponente der Gradienten berechnet – und daraus die Länge (Magnitude) des resultierenden Vektors                                                                                                                                                                                                                            |
| <b>Angle</b>                       | Aus den mit dem jeweils angegebenen Filter vorverarbeiteten Bildern wurden die x- und die y-Komponente der Gradienten berechnet – und daraus der Winkel (Angle) des resultierenden Vektors                                                                                                                                                                                                                               |
| <b>Histogram</b>                   | Die Magnitude- und Angle-Werte wurden in 19 linear gleichverteilte Intervalle unterteilt, bei Magnitude von 0 bis maximaler Wert der Magnitude, bei Angle von 0 bis 360. Die nachfolgende Bin_x Nummer (von 0 bis 17) bezeichnet die (aufsteigend sortierten) Intervalle und der entsprechende Wert gibt die Anzahl der Werte in dem jeweiligen Intervall (Bin_x) an.                                                    |
| <b>Kategorien der Flächigkeit:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Image_8</b>                     | Das Bild wurde in der Vorverarbeitung auf acht Farben reduziert (geclustert).                                                                                                                                                                                                                                                                                                                                            |
| <b>Image_4</b>                     | Das Bild wurde in der Vorverarbeitung auf vier Farben reduziert (geclustert).                                                                                                                                                                                                                                                                                                                                            |
| <b>Image_2</b>                     | Das Bild wurde in der Vorverarbeitung auf zwei Farben reduziert (geclustert).                                                                                                                                                                                                                                                                                                                                            |
| <b>Cluster_Size_Ordered</b>        | bezeichnet die Anzahl der Pixel, die einem Farbton zugeordnet sind, wobei die entsprechenden Werte in aufsteigender Ordnung sortiert wurden, um Vergleichbarkeit herzustellen. Cluster_Size_Ordered_0 bezeichnet die Anzahl der Pixel in dem Cluster, dem die wenigsten Pixel zugeordnet sind, Cluster_Size_Ordered_1 bezeichnet die Anzahl der Pixel in dem Cluster, dem die zweitwenigsten Pixel zugeordnet sind, etc. |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Num_CC_Ordered</b>  | bezeichnet die Anzahl der Farbflächen, also der Farbflächen oder verbundenen Komponenten (connected components) innerhalb der jeweiligen Farbkategorie, wobei die Kategorisierung der Farbkategorien aus Cluster_Size_Ordered übernommen wurde. Num_CC_Ordered_0 bezeichnet also die Anzahl der Farbflächen innerhalb des Farbtönen, dem insgesamt die wenigsten Pixel zugeordnet sind, etc.                                                                                                   |
| <b>Component_Sizes</b> | Verteilung der Größe der Farbflächen oder verbundenen Komponenten innerhalb der jeweiligen Farbkategorie, wobei die Kategorisierung der Farbkategorien aus Cluster_Size_Ordered übernommen wurde. Component_Sizes_0 bezeichnet also die Verteilung der Größe der Farbflächen innerhalb des Farbtönen, dem insgesamt die wenigsten Pixel zugeordnet sind, etc. Die auf die jeweilige Verteilung angewandten statistischen Parameter sind weiter oben unter „statistische Kategorien“ definiert. |

## Beispiele

### **Color\_Distribution\_GRAY\_Entropy:**

Das entsprechende Merkmal gehört zu der Kategorie Farbverteilung und bezeichnet den Entropie-Wert der Pixelwerte in einem über alle Farbkanäle gemitteltem Bild.

### **Gradient\_Features\_Sobel\_Red\_Magnitude\_Median**

Das entsprechende Merkmal gehört zu der Kategorie Kontrastmerkmale und bezeichnet den Median der Magnitude Werte innerhalb des Rot-Kanals eines Bildes, wobei die Magnitude Werte aus den x- und y-Komponenten der mit einem Sobel-Filter vorverarbeiteten Bilder extrahiert wurden.

### **Color\_Blob\_Features\_Image\_2\_Entropy**

Das entsprechende Merkmal gehört zu der Kategorie Flächigkeit. Es bezieht sich auf ein auf zwei Farbtöne reduziertes (geclustertes) Bild und bezeichnet die Entropie der Häufigkeit mit der die beiden Pixelwerte auftreten.

### **Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Skew**

Das entsprechende Merkmal gehört zu der Kategorie Flächigkeit. Es bezieht sich auf ein auf acht Farbtöne reduziertes (geclustertes) Bild und bezeichnet die Schiefe der Verteilung der Größe der gleichen Farbflächen innerhalb des Farbtönen, der die viertwenigsten Bildpunkte (Pixel) aufweist.

## Tabelle 1

Feature Index und Beschreibung (siehe Glossar) der für das Dispatcher Modell extrahierten Merkmale.

| Index | Description                                           |
|-------|-------------------------------------------------------|
| 0     | Color_Distribution_Red_Min                            |
| 1     | Color_Distribution_Red_Max                            |
| 2     | Color_Distribution_Red_Mean                           |
| 3     | Color_Distribution_Red_Median                         |
| 4     | Color_Distribution_Red_Std                            |
| 5     | Color_Distribution_Red_IQR                            |
| 6     | Color_Distribution_Red_Skew                           |
| 7     | Color_Distribution_Red_Kurtosis                       |
| 8     | Color_Distribution_Red_Entropy                        |
| 9     | Color_Distribution_Green_Min                          |
| 10    | Color_Distribution_Green_Max                          |
| 11    | Color_Distribution_Green_Mean                         |
| 12    | Color_Distribution_Green_Median                       |
| 13    | Color_Distribution_Green_Std                          |
| 14    | Color_Distribution_Green_IQR                          |
| 15    | Color_Distribution_Green_Skew                         |
| 16    | Color_Distribution_Green_Kurtosis                     |
| 17    | Color_Distribution_Green_Entropy                      |
| 18    | Color_Distribution_Blue_Min                           |
| 19    | Color_Distribution_Blue_Max                           |
| 20    | Color_Distribution_Blue_Mean                          |
| 21    | Color_Distribution_Blue_Median                        |
| 22    | Color_Distribution_Blue_Std                           |
| 23    | Color_Distribution_Blue_IQR                           |
| 24    | Color_Distribution_Blue_Skew                          |
| 25    | Color_Distribution_Blue_Kurtosis                      |
| 26    | Color_Distribution_Blue_Entropy                       |
| 27    | Color_Distribution_GRAY_Min                           |
| 28    | Color_Distribution_GRAY_Max                           |
| 29    | Color_Distribution_GRAY_Mean                          |
| 30    | Color_Distribution_GRAY_Median                        |
| 31    | Color_Distribution_GRAY_Std                           |
| 32    | Color_Distribution_GRAY_IQR                           |
| 33    | Color_Distribution_GRAY_Skew                          |
| 34    | Color_Distribution_GRAY_Kurtosis                      |
| 35    | Color_Distribution_GRAY_Entropy                       |
| 36    | Gradient_Features_Sobel_Red_Magnitude_Min             |
| 37    | Gradient_Features_Sobel_Red_Magnitude_Max             |
| 38    | Gradient_Features_Sobel_Red_Magnitude_Mean            |
| 39    | Gradient_Features_Sobel_Red_Magnitude_Median          |
| 40    | Gradient_Features_Sobel_Red_Magnitude_Std             |
| 41    | Gradient_Features_Sobel_Red_Magnitude_IQR             |
| 42    | Gradient_Features_Sobel_Red_Magnitude_Skew            |
| 43    | Gradient_Features_Sobel_Red_Magnitude_Kurtosis        |
| 44    | Gradient_Features_Sobel_Red_Magnitude_Entropy         |
| 72    | Gradient_Features_Sobel_Red_Angle_Min                 |
| 73    | Gradient_Features_Sobel_Red_Angle_Max                 |
| 74    | Gradient_Features_Sobel_Red_Angle_Mean                |
| 75    | Gradient_Features_Sobel_Red_Angle_Median              |
| 76    | Gradient_Features_Sobel_Red_Angle_Std                 |
| 77    | Gradient_Features_Sobel_Red_Angle_IQR                 |
| 78    | Gradient_Features_Sobel_Red_Angle_Skew                |
| 79    | Gradient_Features_Sobel_Red_Angle_Kurtosis            |
| 80    | Gradient_Features_Sobel_Red_Angle_Entropy             |
| 108   | Gradient_Features_Sobel_Red_Magnitude_Histogram_Bin_0 |
| 109   | Gradient_Features_Sobel_Red_Magnitude_Histogram_Bin_1 |

110 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_2  
111 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_3  
112 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_4  
113 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_5  
114 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_6  
115 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_7  
116 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_8  
117 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_9  
118 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_10  
119 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_11  
120 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_12  
121 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_13  
122 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_14  
123 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_15  
124 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_16  
125 Gradient\_Features\_Sobel\_Red\_Magnitude\_Histogram\_Bin\_17  
180 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_0  
181 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_1  
182 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_2  
183 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_3  
184 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_4  
185 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_5  
186 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_6  
187 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_7  
188 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_8  
189 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_9  
190 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_10  
191 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_11  
192 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_12  
193 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_13  
194 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_14  
195 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_15  
196 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_16  
197 Gradient\_Features\_Sobel\_Red\_Angle\_Histogram\_Bin\_17  
45 Gradient\_Features\_Sobel\_Green\_Magnitude\_Min  
46 Gradient\_Features\_Sobel\_Green\_Magnitude\_Max  
47 Gradient\_Features\_Sobel\_Green\_Magnitude\_Mean  
48 Gradient\_Features\_Sobel\_Green\_Magnitude\_Median  
49 Gradient\_Features\_Sobel\_Green\_Magnitude\_Std  
50 Gradient\_Features\_Sobel\_Green\_Magnitude\_IQR  
51 Gradient\_Features\_Sobel\_Green\_Magnitude\_Skew  
52 Gradient\_Features\_Sobel\_Green\_Magnitude\_Kurtosis  
53 Gradient\_Features\_Sobel\_Green\_Magnitude\_Entropy  
81 Gradient\_Features\_Sobel\_Green\_Angle\_Min  
82 Gradient\_Features\_Sobel\_Green\_Angle\_Max  
83 Gradient\_Features\_Sobel\_Green\_Angle\_Mean  
84 Gradient\_Features\_Sobel\_Green\_Angle\_Median  
85 Gradient\_Features\_Sobel\_Green\_Angle\_Std  
86 Gradient\_Features\_Sobel\_Green\_Angle\_IQR  
87 Gradient\_Features\_Sobel\_Green\_Angle\_Skew  
88 Gradient\_Features\_Sobel\_Green\_Angle\_Kurtosis  
89 Gradient\_Features\_Sobel\_Green\_Angle\_Entropy  
126 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_0  
127 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_1  
128 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_2  
129 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_3  
130 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_4  
131 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_5  
132 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_6  
133 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_7  
134 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_8  
135 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_9  
136 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_10  
137 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_11  
138 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_12

139 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_13  
140 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_14  
141 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_15  
142 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_16  
143 Gradient\_Features\_Sobel\_Green\_Magnitude\_Histogram\_Bin\_17  
198 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_0  
199 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_1  
200 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_2  
201 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_3  
202 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_4  
203 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_5  
204 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_6  
205 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_7  
206 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_8  
207 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_9  
208 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_10  
209 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_11  
210 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_12  
211 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_13  
212 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_14  
213 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_15  
214 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_16  
215 Gradient\_Features\_Sobel\_Green\_Angle\_Histogram\_Bin\_17  
54 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Min  
55 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Max  
56 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Mean  
57 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Median  
58 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Std  
59 Gradient\_Features\_Sobel\_Blue\_Magnitude\_IQR  
60 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Skew  
61 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Kurtosis  
62 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Entropy  
90 Gradient\_Features\_Sobel\_Blue\_Angle\_Min  
91 Gradient\_Features\_Sobel\_Blue\_Angle\_Max  
92 Gradient\_Features\_Sobel\_Blue\_Angle\_Mean  
93 Gradient\_Features\_Sobel\_Blue\_Angle\_Median  
94 Gradient\_Features\_Sobel\_Blue\_Angle\_Std  
95 Gradient\_Features\_Sobel\_Blue\_Angle\_IQR  
96 Gradient\_Features\_Sobel\_Blue\_Angle\_Skew  
97 Gradient\_Features\_Sobel\_Blue\_Angle\_Kurtosis  
98 Gradient\_Features\_Sobel\_Blue\_Angle\_Entropy  
144 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_0  
145 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_1  
146 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_2  
147 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_3  
148 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_4  
149 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_5  
150 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_6  
151 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_7  
152 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_8  
153 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_9  
154 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_10  
155 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_11  
156 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_12  
157 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_13  
158 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_14  
159 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_15  
160 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_16  
161 Gradient\_Features\_Sobel\_Blue\_Magnitude\_Histogram\_Bin\_17  
216 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_0  
217 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_1  
218 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_2  
219 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_3  
220 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_4  
221 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_5

222 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_6  
223 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_7  
224 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_8  
225 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_9  
226 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_10  
227 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_11  
228 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_12  
229 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_13  
230 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_14  
231 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_15  
232 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_16  
233 Gradient\_Features\_Sobel\_Blue\_Angle\_Histogram\_Bin\_17  
63 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Min  
64 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Max  
65 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Mean  
66 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Median  
67 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Std  
68 Gradient\_Features\_Sobel\_Gray\_Magnitude\_IQR  
69 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Skew  
70 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Kurtosis  
71 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Entropy  
99 Gradient\_Features\_Sobel\_Gray\_Angle\_Min  
100 Gradient\_Features\_Sobel\_Gray\_Angle\_Max  
101 Gradient\_Features\_Sobel\_Gray\_Angle\_Mean  
102 Gradient\_Features\_Sobel\_Gray\_Angle\_Median  
103 Gradient\_Features\_Sobel\_Gray\_Angle\_Std  
104 Gradient\_Features\_Sobel\_Gray\_Angle\_IQR  
105 Gradient\_Features\_Sobel\_Gray\_Angle\_Skew  
106 Gradient\_Features\_Sobel\_Gray\_Angle\_Kurtosis  
107 Gradient\_Features\_Sobel\_Gray\_Angle\_Entropy  
162 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_0  
163 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_1  
164 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_2  
165 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_3  
166 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_4  
167 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_5  
168 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_6  
169 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_7  
170 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_8  
171 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_9  
172 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_10  
173 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_11  
174 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_12  
175 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_13  
176 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_14  
177 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_15  
178 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_16  
179 Gradient\_Features\_Sobel\_Gray\_Magnitude\_Histogram\_Bin\_17  
234 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_0  
235 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_1  
236 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_2  
237 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_3  
238 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_4  
239 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_5  
240 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_6  
241 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_7  
242 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_8  
243 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_9  
244 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_10  
245 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_11  
246 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_12  
247 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_13  
248 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_14  
249 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_15  
250 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_16

251 Gradient\_Features\_Sobel\_Gray\_Angle\_Histogram\_Bin\_17  
252 Gradient\_Features\_Scharr\_Red\_Magnitude\_Min  
253 Gradient\_Features\_Scharr\_Red\_Magnitude\_Max  
254 Gradient\_Features\_Scharr\_Red\_Magnitude\_Mean  
255 Gradient\_Features\_Scharr\_Red\_Magnitude\_Median  
256 Gradient\_Features\_Scharr\_Red\_Magnitude\_Std  
257 Gradient\_Features\_Scharr\_Red\_Magnitude\_IQR  
258 Gradient\_Features\_Scharr\_Red\_Magnitude\_Skew  
259 Gradient\_Features\_Scharr\_Red\_Magnitude\_Kurtosis  
260 Gradient\_Features\_Scharr\_Red\_Magnitude\_Entropy  
288 Gradient\_Features\_Scharr\_Red\_Angle\_Min  
289 Gradient\_Features\_Scharr\_Red\_Angle\_Max  
290 Gradient\_Features\_Scharr\_Red\_Angle\_Mean  
291 Gradient\_Features\_Scharr\_Red\_Angle\_Median  
292 Gradient\_Features\_Scharr\_Red\_Angle\_Std  
293 Gradient\_Features\_Scharr\_Red\_Angle\_IQR  
294 Gradient\_Features\_Scharr\_Red\_Angle\_Skew  
295 Gradient\_Features\_Scharr\_Red\_Angle\_Kurtosis  
296 Gradient\_Features\_Scharr\_Red\_Angle\_Entropy  
324 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_0  
325 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_1  
326 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_2  
327 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_3  
328 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_4  
329 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_5  
330 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_6  
331 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_7  
332 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_8  
333 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_9  
334 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_10  
335 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_11  
336 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_12  
337 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_13  
338 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_14  
339 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_15  
340 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_16  
341 Gradient\_Features\_Scharr\_Red\_Magnitude\_Histogram\_Bin\_17  
396 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_0  
397 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_1  
398 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_2  
399 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_3  
400 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_4  
401 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_5  
402 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_6  
403 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_7  
404 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_8  
405 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_9  
406 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_10  
407 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_11  
408 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_12  
409 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_13  
410 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_14  
411 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_15  
412 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_16  
413 Gradient\_Features\_Scharr\_Red\_Angle\_Histogram\_Bin\_17  
261 Gradient\_Features\_Scharr\_Green\_Magnitude\_Min  
262 Gradient\_Features\_Scharr\_Green\_Magnitude\_Max  
263 Gradient\_Features\_Scharr\_Green\_Magnitude\_Mean  
264 Gradient\_Features\_Scharr\_Green\_Magnitude\_Median  
265 Gradient\_Features\_Scharr\_Green\_Magnitude\_Std  
266 Gradient\_Features\_Scharr\_Green\_Magnitude\_IQR  
267 Gradient\_Features\_Scharr\_Green\_Magnitude\_Skew  
268 Gradient\_Features\_Scharr\_Green\_Magnitude\_Kurtosis  
269 Gradient\_Features\_Scharr\_Green\_Magnitude\_Entropy  
297 Gradient\_Features\_Scharr\_Green\_Angle\_Min

298 Gradient\_Features\_Scharr\_Green\_Angle\_Max  
299 Gradient\_Features\_Scharr\_Green\_Angle\_Mean  
300 Gradient\_Features\_Scharr\_Green\_Angle\_Median  
301 Gradient\_Features\_Scharr\_Green\_Angle\_Std  
302 Gradient\_Features\_Scharr\_Green\_Angle\_IQR  
303 Gradient\_Features\_Scharr\_Green\_Angle\_Skew  
304 Gradient\_Features\_Scharr\_Green\_Angle\_Kurtosis  
305 Gradient\_Features\_Scharr\_Green\_Angle\_Entropy  
342 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_0  
343 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_1  
344 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_2  
345 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_3  
346 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_4  
347 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_5  
348 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_6  
349 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_7  
350 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_8  
351 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_9  
352 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_10  
353 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_11  
354 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_12  
355 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_13  
356 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_14  
357 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_15  
358 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_16  
359 Gradient\_Features\_Scharr\_Green\_Magnitude\_Histogram\_Bin\_17  
414 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_0  
415 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_1  
416 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_2  
417 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_3  
418 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_4  
419 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_5  
420 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_6  
421 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_7  
422 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_8  
423 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_9  
424 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_10  
425 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_11  
426 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_12  
427 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_13  
428 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_14  
429 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_15  
430 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_16  
431 Gradient\_Features\_Scharr\_Green\_Angle\_Histogram\_Bin\_17  
270 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Min  
271 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Max  
272 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Mean  
273 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Median  
274 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Std  
275 Gradient\_Features\_Scharr\_Blue\_Magnitude\_IQR  
276 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Skew  
277 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Kurtosis  
278 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Entropy  
306 Gradient\_Features\_Scharr\_Blue\_Angle\_Min  
307 Gradient\_Features\_Scharr\_Blue\_Angle\_Max  
308 Gradient\_Features\_Scharr\_Blue\_Angle\_Mean  
309 Gradient\_Features\_Scharr\_Blue\_Angle\_Median  
310 Gradient\_Features\_Scharr\_Blue\_Angle\_Std  
311 Gradient\_Features\_Scharr\_Blue\_Angle\_IQR  
312 Gradient\_Features\_Scharr\_Blue\_Angle\_Skew  
313 Gradient\_Features\_Scharr\_Blue\_Angle\_Kurtosis  
314 Gradient\_Features\_Scharr\_Blue\_Angle\_Entropy  
360 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_0  
361 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_1  
362 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_2

363 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_3  
364 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_4  
365 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_5  
366 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_6  
367 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_7  
368 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_8  
369 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_9  
370 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_10  
371 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_11  
372 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_12  
373 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_13  
374 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_14  
375 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_15  
376 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_16  
377 Gradient\_Features\_Scharr\_Blue\_Magnitude\_Histogram\_Bin\_17  
432 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_0  
433 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_1  
434 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_2  
435 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_3  
436 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_4  
437 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_5  
438 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_6  
439 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_7  
440 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_8  
441 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_9  
442 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_10  
443 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_11  
444 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_12  
445 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_13  
446 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_14  
447 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_15  
448 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_16  
449 Gradient\_Features\_Scharr\_Blue\_Angle\_Histogram\_Bin\_17  
279 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Min  
280 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Max  
281 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Mean  
282 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Median  
283 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Std  
284 Gradient\_Features\_Scharr\_Gray\_Magnitude\_IQR  
285 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Skew  
286 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Kurtosis  
287 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Entropy  
315 Gradient\_Features\_Scharr\_Gray\_Angle\_Min  
316 Gradient\_Features\_Scharr\_Gray\_Angle\_Max  
317 Gradient\_Features\_Scharr\_Gray\_Angle\_Mean  
318 Gradient\_Features\_Scharr\_Gray\_Angle\_Median  
319 Gradient\_Features\_Scharr\_Gray\_Angle\_Std  
320 Gradient\_Features\_Scharr\_Gray\_Angle\_IQR  
321 Gradient\_Features\_Scharr\_Gray\_Angle\_Skew  
322 Gradient\_Features\_Scharr\_Gray\_Angle\_Kurtosis  
323 Gradient\_Features\_Scharr\_Gray\_Angle\_Entropy  
378 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_0  
379 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_1  
380 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_2  
381 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_3  
382 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_4  
383 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_5  
384 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_6  
385 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_7  
386 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_8  
387 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_9  
388 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_10  
389 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_11  
390 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_12  
391 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_13

392 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_14  
393 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_15  
394 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_16  
395 Gradient\_Features\_Scharr\_Gray\_Magnitude\_Histogram\_Bin\_17  
450 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_0  
451 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_1  
452 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_2  
453 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_3  
454 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_4  
455 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_5  
456 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_6  
457 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_7  
458 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_8  
459 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_9  
460 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_10  
461 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_11  
462 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_12  
463 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_13  
464 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_14  
465 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_15  
466 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_16  
467 Gradient\_Features\_Scharr\_Gray\_Angle\_Histogram\_Bin\_17  
468 Gradient\_Features\_Laplace\_Red\_Magnitude\_Min  
469 Gradient\_Features\_Laplace\_Red\_Magnitude\_Max  
470 Gradient\_Features\_Laplace\_Red\_Magnitude\_Mean  
471 Gradient\_Features\_Laplace\_Red\_Magnitude\_Median  
472 Gradient\_Features\_Laplace\_Red\_Magnitude\_Std  
473 Gradient\_Features\_Laplace\_Red\_Magnitude\_IQR  
474 Gradient\_Features\_Laplace\_Red\_Magnitude\_Skew  
475 Gradient\_Features\_Laplace\_Red\_Magnitude\_Kurtosis  
476 Gradient\_Features\_Laplace\_Red\_Magnitude\_Entropy  
504 Gradient\_Features\_Laplace\_Red\_Angle\_Min  
505 Gradient\_Features\_Laplace\_Red\_Angle\_Max  
506 Gradient\_Features\_Laplace\_Red\_Angle\_Mean  
507 Gradient\_Features\_Laplace\_Red\_Angle\_Median  
508 Gradient\_Features\_Laplace\_Red\_Angle\_Std  
509 Gradient\_Features\_Laplace\_Red\_Angle\_IQR  
510 Gradient\_Features\_Laplace\_Red\_Angle\_Skew  
511 Gradient\_Features\_Laplace\_Red\_Angle\_Kurtosis  
512 Gradient\_Features\_Laplace\_Red\_Angle\_Entropy  
540 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_0  
541 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_1  
542 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_2  
543 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_3  
544 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_4  
545 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_5  
546 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_6  
547 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_7  
548 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_8  
549 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_9  
550 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_10  
551 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_11  
552 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_12  
553 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_13  
554 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_14  
555 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_15  
556 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_16  
557 Gradient\_Features\_Laplace\_Red\_Magnitude\_Histogram\_Bin\_17  
612 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_0  
613 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_1  
614 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_2  
615 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_3  
616 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_4  
617 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_5  
618 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_6

619 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_7  
620 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_8  
621 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_9  
622 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_10  
623 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_11  
624 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_12  
625 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_13  
626 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_14  
627 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_15  
628 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_16  
629 Gradient\_Features\_Laplace\_Red\_Angle\_Histogram\_Bin\_17  
477 Gradient\_Features\_Laplace\_Green\_Magnitude\_Min  
478 Gradient\_Features\_Laplace\_Green\_Magnitude\_Max  
479 Gradient\_Features\_Laplace\_Green\_Magnitude\_Mean  
480 Gradient\_Features\_Laplace\_Green\_Magnitude\_Median  
481 Gradient\_Features\_Laplace\_Green\_Magnitude\_Std  
482 Gradient\_Features\_Laplace\_Green\_Magnitude\_IQR  
483 Gradient\_Features\_Laplace\_Green\_Magnitude\_Skew  
484 Gradient\_Features\_Laplace\_Green\_Magnitude\_Kurtosis  
485 Gradient\_Features\_Laplace\_Green\_Magnitude\_Entropy  
513 Gradient\_Features\_Laplace\_Green\_Angle\_Min  
514 Gradient\_Features\_Laplace\_Green\_Angle\_Max  
515 Gradient\_Features\_Laplace\_Green\_Angle\_Mean  
516 Gradient\_Features\_Laplace\_Green\_Angle\_Median  
517 Gradient\_Features\_Laplace\_Green\_Angle\_Std  
518 Gradient\_Features\_Laplace\_Green\_Angle\_IQR  
519 Gradient\_Features\_Laplace\_Green\_Angle\_Skew  
520 Gradient\_Features\_Laplace\_Green\_Angle\_Kurtosis  
521 Gradient\_Features\_Laplace\_Green\_Angle\_Entropy  
558 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_0  
559 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_1  
560 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_2  
561 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_3  
562 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_4  
563 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_5  
564 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_6  
565 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_7  
566 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_8  
567 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_9  
568 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_10  
569 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_11  
570 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_12  
571 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_13  
572 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_14  
573 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_15  
574 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_16  
575 Gradient\_Features\_Laplace\_Green\_Magnitude\_Histogram\_Bin\_17  
630 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_0  
631 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_1  
632 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_2  
633 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_3  
634 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_4  
635 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_5  
636 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_6  
637 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_7  
638 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_8  
639 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_9  
640 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_10  
641 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_11  
642 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_12  
643 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_13  
644 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_14  
645 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_15  
646 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_16  
647 Gradient\_Features\_Laplace\_Green\_Angle\_Histogram\_Bin\_17

486 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Min  
487 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Max  
488 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Mean  
489 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Median  
490 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Std  
491 Gradient\_Features\_Laplace\_Blue\_Magnitude\_IQR  
492 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Skew  
493 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Kurtosis  
494 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Entropy  
522 Gradient\_Features\_Laplace\_Blue\_Angle\_Min  
523 Gradient\_Features\_Laplace\_Blue\_Angle\_Max  
524 Gradient\_Features\_Laplace\_Blue\_Angle\_Mean  
525 Gradient\_Features\_Laplace\_Blue\_Angle\_Median  
526 Gradient\_Features\_Laplace\_Blue\_Angle\_Std  
527 Gradient\_Features\_Laplace\_Blue\_Angle\_IQR  
528 Gradient\_Features\_Laplace\_Blue\_Angle\_Skew  
529 Gradient\_Features\_Laplace\_Blue\_Angle\_Kurtosis  
530 Gradient\_Features\_Laplace\_Blue\_Angle\_Entropy  
576 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_0  
577 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_1  
578 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_2  
579 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_3  
580 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_4  
581 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_5  
582 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_6  
583 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_7  
584 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_8  
585 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_9  
586 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_10  
587 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_11  
588 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_12  
589 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_13  
590 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_14  
591 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_15  
592 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_16  
593 Gradient\_Features\_Laplace\_Blue\_Magnitude\_Histogram\_Bin\_17  
648 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_0  
649 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_1  
650 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_2  
651 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_3  
652 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_4  
653 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_5  
654 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_6  
655 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_7  
656 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_8  
657 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_9  
658 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_10  
659 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_11  
660 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_12  
661 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_13  
662 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_14  
663 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_15  
664 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_16  
665 Gradient\_Features\_Laplace\_Blue\_Angle\_Histogram\_Bin\_17  
495 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Min  
496 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Max  
497 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Mean  
498 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Median  
499 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Std  
500 Gradient\_Features\_Laplace\_Gray\_Magnitude\_IQR  
501 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Skew  
502 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Kurtosis  
503 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Entropy  
531 Gradient\_Features\_Laplace\_Gray\_Angle\_Min  
532 Gradient\_Features\_Laplace\_Gray\_Angle\_Max

533 Gradient\_Features\_Laplace\_Gray\_Angle\_Mean  
534 Gradient\_Features\_Laplace\_Gray\_Angle\_Median  
535 Gradient\_Features\_Laplace\_Gray\_Angle\_Std  
536 Gradient\_Features\_Laplace\_Gray\_Angle\_IQR  
537 Gradient\_Features\_Laplace\_Gray\_Angle\_Skew  
538 Gradient\_Features\_Laplace\_Gray\_Angle\_Kurtosis  
539 Gradient\_Features\_Laplace\_Gray\_Angle\_Entropy  
594 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_0  
595 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_1  
596 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_2  
597 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_3  
598 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_4  
599 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_5  
600 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_6  
601 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_7  
602 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_8  
603 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_9  
604 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_10  
605 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_11  
606 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_12  
607 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_13  
608 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_14  
609 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_15  
610 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_16  
611 Gradient\_Features\_Laplace\_Gray\_Magnitude\_Histogram\_Bin\_17  
666 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_0  
667 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_1  
668 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_2  
669 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_3  
670 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_4  
671 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_5  
672 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_6  
673 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_7  
674 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_8  
675 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_9  
676 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_10  
677 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_11  
678 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_12  
679 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_13  
680 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_14  
681 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_15  
682 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_16  
683 Gradient\_Features\_Laplace\_Gray\_Angle\_Histogram\_Bin\_17  
684 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_0  
685 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_1  
686 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_2  
687 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_3  
688 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_4  
689 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_5  
690 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_6  
691 Color\_Blob\_Features\_Image\_8\_Cluster\_Size\_Ordered\_7  
692 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_0  
693 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_1  
694 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_2  
695 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_3  
696 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_4  
697 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_5  
698 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_6  
699 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_7  
700 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Min  
701 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Max  
702 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Mean  
703 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Median  
704 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Std  
705 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_IQR

706 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Skew  
707 Color\_Blob\_Features\_Image\_8\_Num\_CC\_Ordered\_Kurtosis  
708 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Min  
709 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Max  
710 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Mean  
711 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Median  
712 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Std  
713 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_IQR  
714 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Skew  
715 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_0\_Kurtosis  
716 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Min  
717 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Max  
718 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Mean  
719 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Median  
720 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Std  
721 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_IQR  
722 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Skew  
723 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_1\_Kurtosis  
724 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Min  
725 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Max  
726 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Mean  
727 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Median  
728 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Std  
729 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_IQR  
730 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Skew  
731 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_2\_Kurtosis  
732 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Min  
733 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Max  
734 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Mean  
735 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Median  
736 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Std  
737 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_IQR  
738 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Skew  
739 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_3\_Kurtosis  
740 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Min  
741 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Max  
742 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Mean  
743 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Median  
744 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Std  
745 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_IQR  
746 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Skew  
747 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_4\_Kurtosis  
748 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Min  
749 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Max  
750 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Mean  
751 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Median  
752 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Std  
753 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_IQR  
754 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Skew  
755 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_5\_Kurtosis  
756 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Min  
757 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Max  
758 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Mean  
759 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Median  
760 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Std  
761 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_IQR  
762 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Skew  
763 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_6\_Kurtosis  
764 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Min  
765 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Max  
766 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Mean  
767 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Median  
768 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Std  
769 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_IQR  
770 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Skew

771 Color\_Blob\_Features\_Image\_8\_Component\_Sizes\_7\_Kurtosis  
772 Color\_Blob\_Features\_Image\_8\_Entropy  
773 Color\_Blob\_Features\_Image\_4\_Cluster\_Size\_Ordered\_0  
774 Color\_Blob\_Features\_Image\_4\_Cluster\_Size\_Ordered\_1  
775 Color\_Blob\_Features\_Image\_4\_Cluster\_Size\_Ordered\_2  
776 Color\_Blob\_Features\_Image\_4\_Cluster\_Size\_Ordered\_3  
777 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_0  
778 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_1  
779 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_2  
780 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_3  
781 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Min  
782 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Max  
783 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Mean  
784 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Median  
785 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Std  
786 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_IQR  
787 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Skew  
788 Color\_Blob\_Features\_Image\_4\_Num\_CC\_Ordered\_Kurtosis  
789 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Min  
790 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Max  
791 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Mean  
792 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Median  
793 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Std  
794 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_IQR  
795 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Skew  
796 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_0\_Kurtosis  
797 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Min  
798 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Max  
799 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Mean  
800 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Median  
801 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Std  
802 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_IQR  
803 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Skew  
804 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_1\_Kurtosis  
805 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Min  
806 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Max  
807 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Mean  
808 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Median  
809 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Std  
810 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_IQR  
811 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Skew  
812 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_2\_Kurtosis  
813 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Min  
814 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Max  
815 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Mean  
816 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Median  
817 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Std  
818 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_IQR  
819 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Skew  
820 Color\_Blob\_Features\_Image\_4\_Component\_Sizes\_3\_Kurtosis  
821 Color\_Blob\_Features\_Image\_4\_Entropy  
822 Color\_Blob\_Features\_Image\_2\_Cluster\_Size\_Ordered\_0  
823 Color\_Blob\_Features\_Image\_2\_Cluster\_Size\_Ordered\_1  
824 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_0  
825 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_1  
826 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Min  
827 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Max  
828 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Mean  
829 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Median  
830 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Std  
831 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_IQR  
832 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Skew  
833 Color\_Blob\_Features\_Image\_2\_Num\_CC\_Ordered\_Kurtosis  
834 Color\_Blob\_Features\_Image\_2\_Component\_Sizes\_0\_Min  
835 Color\_Blob\_Features\_Image\_2\_Component\_Sizes\_0\_Max

|     |                                                        |
|-----|--------------------------------------------------------|
| 836 | Color_Blob_Features_Image_2_Component_Sizes_0_Mean     |
| 837 | Color_Blob_Features_Image_2_Component_Sizes_0_Median   |
| 838 | Color_Blob_Features_Image_2_Component_Sizes_0_Std      |
| 839 | Color_Blob_Features_Image_2_Component_Sizes_0_IQR      |
| 840 | Color_Blob_Features_Image_2_Component_Sizes_0_Skew     |
| 841 | Color_Blob_Features_Image_2_Component_Sizes_0_Kurtosis |
| 842 | Color_Blob_Features_Image_2_Component_Sizes_1_Min      |
| 843 | Color_Blob_Features_Image_2_Component_Sizes_1_Max      |
| 844 | Color_Blob_Features_Image_2_Component_Sizes_1_Mean     |
| 845 | Color_Blob_Features_Image_2_Component_Sizes_1_Median   |
| 846 | Color_Blob_Features_Image_2_Component_Sizes_1_Std      |
| 847 | Color_Blob_Features_Image_2_Component_Sizes_1_IQR      |
| 848 | Color_Blob_Features_Image_2_Component_Sizes_1_Skew     |
| 849 | Color_Blob_Features_Image_2_Component_Sizes_1_Kurtosis |
| 850 | Color_Blob_Features_Image_2_Entropy                    |