**Hasil Final Ekstraksi ROI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Color | Face | Jumlah Awal | Jumlah Sangat Baik | Jumlah Kurang Optimal | Jumlah Tidak Baik |
| Kuning | Front | 10 | 8 | 1 | 1 |
| Back | 10 | 5 | 3 | 2 |
| TOTAL | | 20 | 13 | 4 | 3 |
| Maroon | Front | 10 | 7 | 2 | 1 |
| Back | 10 | 5 | 4 | 1 |
| TOTAL | | 20 | 12 | 6 | 2 |
| Merah | Front | 10 | 4 | 2 | 4 |
| Back | 10 | 5 | 4 | 1 |
| TOTAL | | 20 | 9 | 6 | 5 |
| Orange | Front | 10 | 7 | 1 | 2 |
| Back | 10 | 6 | 2 | 2 |
| TOTAL | | 20 | 13 | 3 | 4 |

**Jumlah Citra yang lanjut**

**(13 + 12 + 9 + 13) + (4 + 6 + 6 +3) = 66**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Color | Face | Jumlah Sangat Baik | Jumlah Kurang Optimal | Jumlah data lanjut per warna |
| Kuning | Front | 8 | 1 | 17 |
| Back | 5 | 3 |
| Maroon | Front | 7 | 2 | 18 |
| Back | 5 | 4 |
| Merah | Front | 4 | 2 | 15 |
| Back | 5 | 4 |
| Orange | Front | 7 | 1 | 16 |
| Back | 6 | 2 |

**Hasil Eksperimen Pengenalan Warna Menggunakan Color Moments dan K-Nearaest Neighbor**

**Pengujian pada dataset dengan pembagian 60% data latih vs 40% data uji.**

1. Statistik Data yang digunakan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Color | | Data Latih | | Data Uji | |
| Kuning | | 10 | | 7 | |
| Maroon | | 10 | | 8 | |
| Merah | | 9 | | 6 | |
| Orange | | 9 | | 7 | |
| TOTAL | 38 | | 28 | |

Daftar Nama file untuk Data Latih 60 VS 40

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 01\_roi\_front\_red.jpg |
| 2. | 02\_roi\_front\_orange.jpg |
| 3. |  |
| … | … |
| 38. |  |

Daftar Nama file untuk Data Uji 60 VS 40

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 21\_roi\_front\_orange.jpg |
| 2. |  |
| 3. |  |
| … | … |
| 28. |  |

1. Hasil Pengujian menggunakan K=3 terhadap data Uji

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning | 5 | 1 | 0 | 1 |
| Maroon | 0 | 6 | 2 | 0 |
| Merah | 0 | 1 | 5 | 0 |
| Orange | 1 | 0 | 1 | 5 |

Akurasi = (5+6+5+5)/28 x 100% = 75%

1. Hasil Pengujian menggunakan K=5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

1. Hasil Pengujian menggunakan K=7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

**Pengujian pada dataset dengan pembagian 70% data latih vs 30% data uji.**

1. Statistik Data yang digunakan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Color | | Data Latih | | Data Uji | |
| Kuning | |  | |  | |
| Maroon | |  | |  | |
| Merah | |  | |  | |
| Orange | |  | |  | |
| TOTAL |  | |  | |

Daftar Nama file untuk Data Latih 70 VS 30

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 01\_roi\_front\_red.jpg |
| 2. | 02\_roi\_front\_orange.jpg |
| 3. |  |
| … | … |
| …. |  |

Daftar Nama file untuk Data Uji 70 VS 30

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 21\_roi\_front\_orange.jpg |
| 2. |  |
| 3. |  |
| … | … |
| …. |  |

1. Hasil Pengujian menggunakan K=3 terhadap data Uji

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

1. Hasil Pengujian menggunakan K=5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

1. Hasil Pengujian menggunakan K=7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

**Pengujian pada dataset dengan pembagian 80% data latih vs 20% data uji.**

1. Statistik Data yang digunakan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Color | | Data Latih | | Data Uji | |
| Kuning | |  | |  | |
| Maroon | |  | |  | |
| Merah | |  | |  | |
| Orange | |  | |  | |
| TOTAL |  | |  | |

Daftar Nama file untuk Data Latih 80 VS 20

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 01\_roi\_front\_red.jpg |
| 2. | 02\_roi\_front\_orange.jpg |
| 3. |  |
| … | … |
| …. |  |

Daftar Nama file untuk Data Uji 80 VS 20

|  |  |
| --- | --- |
| No | Nama File |
| 1. | 21\_roi\_front\_orange.jpg |
| 2. |  |
| 3. |  |
| … | … |
| …. |  |

1. Hasil Pengujian menggunakan K=3 terhadap data Uji

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

1. Hasil Pengujian menggunakan K=5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

1. Hasil Pengujian menggunakan K=7

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Kuning | Maroon | Merah | Orange |
| Kuning |  |  |  |  |
| Maroon |  |  |  |  |
| Merah |  |  |  |  |
| Orange |  |  |  |  |

Akurasi = …%

**Rekap Akurasi Hasil Eksperimen:**

|  |  |  |  |
| --- | --- | --- | --- |
| K = | 60 VS 40 | 70 VS 30 | 80 VS 20 |
| 3 | 75% | …% | …% |
| 5 | …% | …% | …% |
| 7 | …% | …% | …% |

**10 Contoh Hasil Klasifikasi yang SALAH**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Citra** | **ROI** | **Warna Asli** | **Prediksi** |
| **1.** |  |  | **Merah** | **Maroon** |
| **2** |  |  |  |  |
| **….** |  |  |  |  |
| **10** |  |  |  |  |