

**Universidade Federal do Tocantins**

**Disciplina: Processamento de Imagens**

**Professora: Glenda Botelho**

**Alunos: Daniel Nolêto Maciel Luz e João Victor Walcacer Giani**

**Atividade Equalização Histograma**

Imagem Original

|  |  |  |  |
| --- | --- | --- | --- |
| **2** | **2** | **1** | **1** |
| **2** | **2** | **1** | **1** |
| **2** | **1** | **4** | **3** |
| **4** | **4** | **2** | **0** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Rk** | **Nk** | **Pr(rk)** | **Freq.** | **Eq.** | **Rk** |
| **0** | 1 | 0.0625 | 0.0625 | 0.4375 | 0 |
| **1** | 5 | 0.3125 | 0.375 | 2.625 | 3 |
| **2** | 6 | 0.375 | 0.75 | 5.25 | 5 |
| **3** | 1 | 0.0625 | 0,8125 | 5.6875 | 6 |
| **4** | 3 | 0.1875 | 1.00 | 7.00 | 7 |
| **5** | 0 | 0 | 1.00 | 7.00 | 7 |
| **6** | 0 | 0 | 1.00 | 7.00 | 7 |
| **7** | 0 | 0 | 1.00 | 7.00 | 7 |
| **Total:** | 16 | 1 | - | - | - |

|  |  |  |
| --- | --- | --- |
| Rk | Nk | Pr(rk) |
| 0 | 1 | 1/16 = 0.0625 |
| 1 | 5 | 5/16 = 0.3125 |
| 2 | 6 | 6/16 = 0.375 |
| 3 | 1 | 1/16 = 0.0625 |
| 4 | 3 | 3/16 = 0.1875 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| Total: | 16 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| 5 | 5 | 3 | 3 |
| 5 | 5 | 3 | 3 |
| 5 | 3 | 7 | 6 |
| 7 | 7 | 5 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| 2 | 2 | 1 | 1 |
| 2 | 2 | 1 | 1 |
| 2 | 1 | 4 | 3 |
| 4 | 4 | 2 | 0 |

|  |  |
| --- | --- |
| **rk** | **rk** |
| **0** | **0** |
| **1** | **3** |
| **2** | **5** |
| **3** | **6** |
| **4** | **7** |
| **5** | **7** |
| **6** | **7** |
| **7** | **7** |

**Imagem de Entrada Imagem de Saida**

