



UNIVERSIDADE FEDERAL DO CEARÁ - UFC
CENTRO DE TECNOLOGIA - CT
DEPARTAMENTO DE ENGENHARIA DE TELEINFORMÁTICA - DETI
CURSO DE GRADUAÇÃO EM ENGENHARIA DE COMPUTAÇÃO

PDI - Simulações do Cap3

OBS: Figuras, Códigos e demais necessidades estão juntas com o .zip desse pdf

OBS2: O código está no formato .ipynb, que é o notebook do google colab.

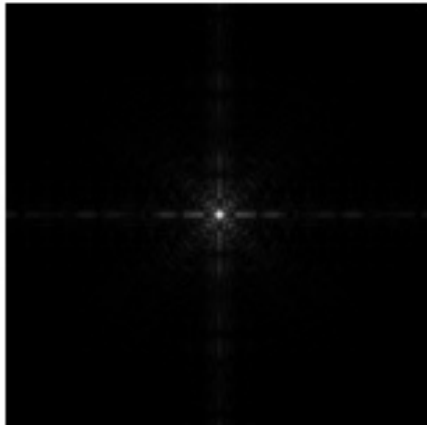
Aluno:

Caio Martim Barros - 472713

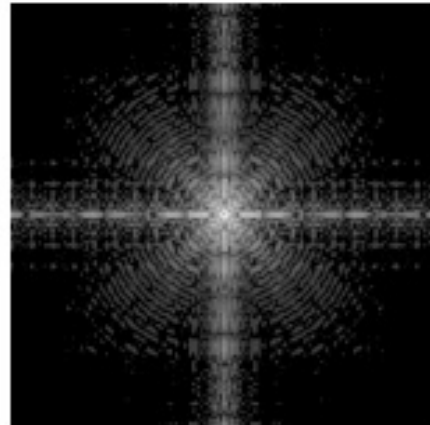
1 Figuras

3.5

Imagem Original



Transformação Logaritmica



3.8

Imagem Original



$\gamma = 0.4$



$\gamma = 0.6$



$\gamma = 0.3$



3.10

Imagem com baixo contraste

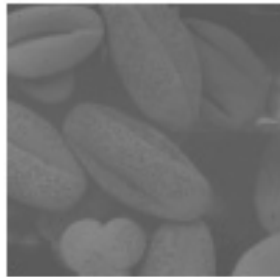
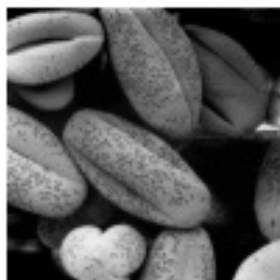
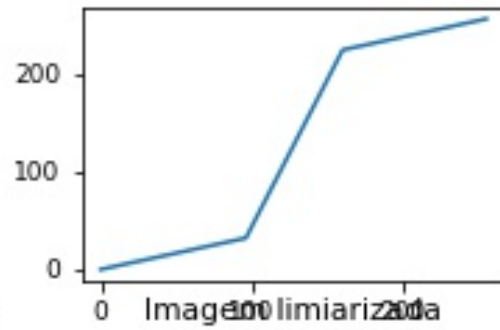


Imagem com alargamento



Funcao de alargamento



3.12

Imagem Original



Transformação 1



Transformação 2



Imagem Original



1º plano



2º plano



3º plano



4º plano



5º plano



6º plano



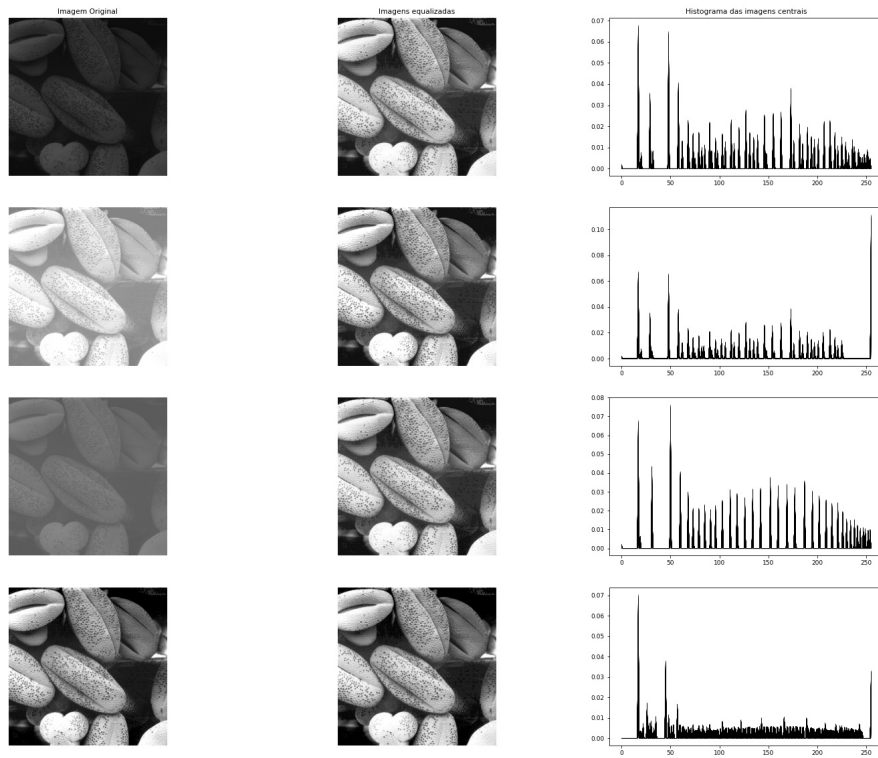
7º plano



8º plano



3.20



3.25

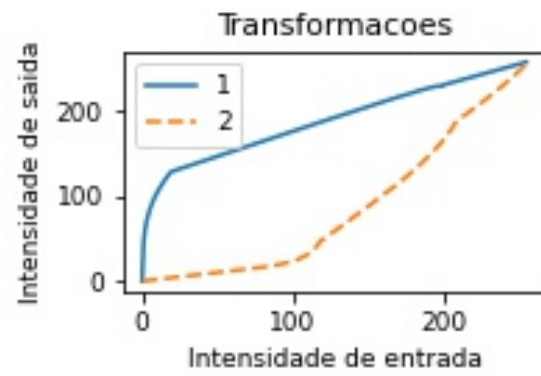
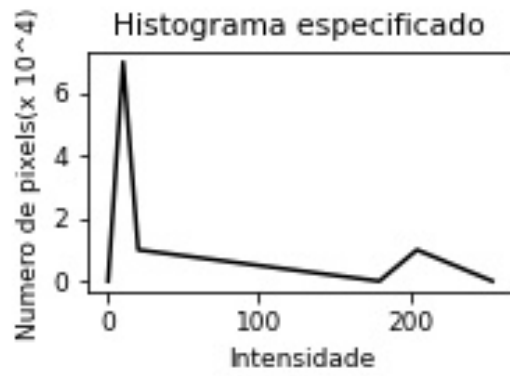
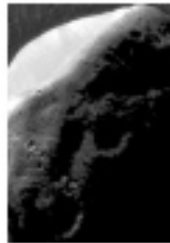
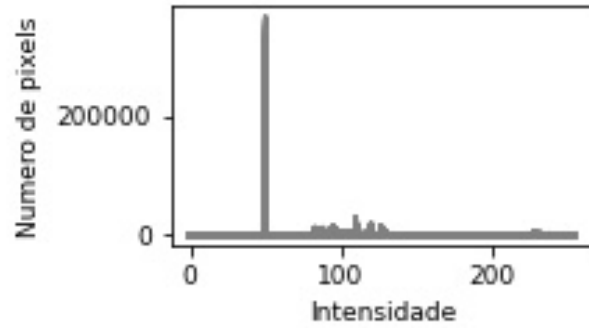


Imagem remapeada



Histograma da imagem remapeada





3.27

Imagem Original



Equalizacao global de histograma



Equalizacao estatistica de histograma



Imagem Original

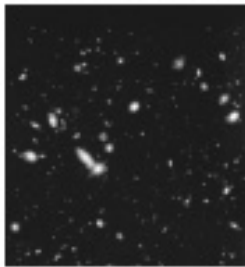


media 3x3



3.34

Imagem Original



media 15x15

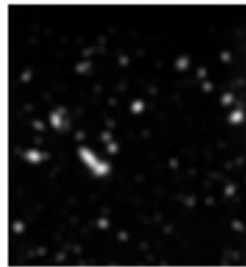
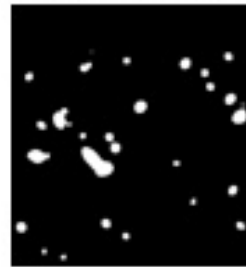
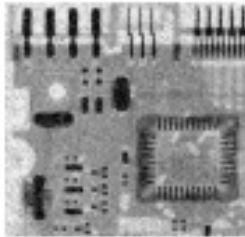


imagem limiarizada apos filtragem

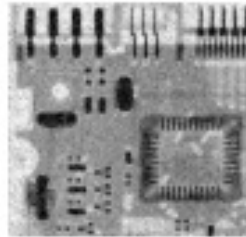


3.35

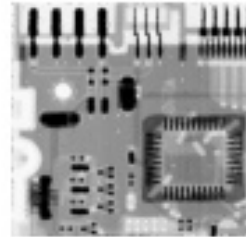
Imagem Original



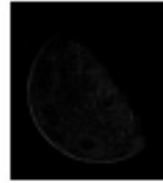
media 3x3



filtragem por mediana apos media



3.38



3.40

DIP-XE

DIP-XE

DIP-XE

DIP-XE

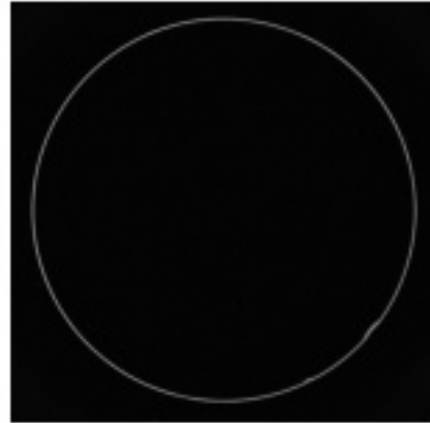
DIP-XE

3.42

Imagem Original



Filtro de Sobel



3.43

