Assignment 3.1

Pradyot Prakash - 130050008 Utkarsh Mall - 130050037 Samarth Mishra - 130260018

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(a)

RRMSE Between Noisy and Noiseless Image

RRMSE = 0.3364

(b)

Quadratic Prior

- Optimal α is 0.8
- RRMSE ar α is 0.2168
- RRMSE at 0.8α is 0.2272
- RRMSE at 1.2α is 0.2668
- \bullet γ does not affects the quadratic prior

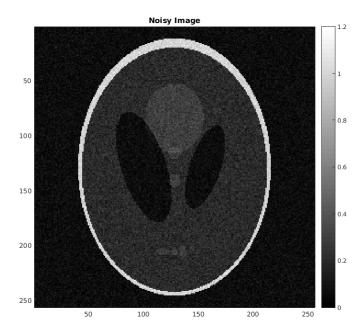
Huber Prior

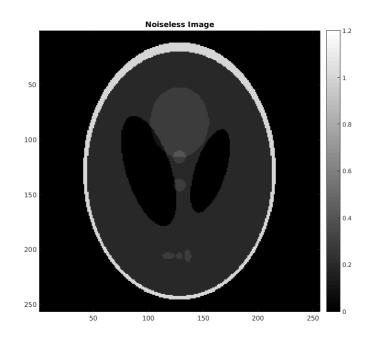
- Optimal α is 0.503 and γ is 0.0424
- RRMSE ar α and γ is 0.1568
- RRMSE at 0.8α and γ is 0.1623
- RRMSE at 1.2α and γ is 0.1629
- RRMSE at α and 0.8γ is 0.1583
- RRMSE at α and 1.2 γ is 0.1578

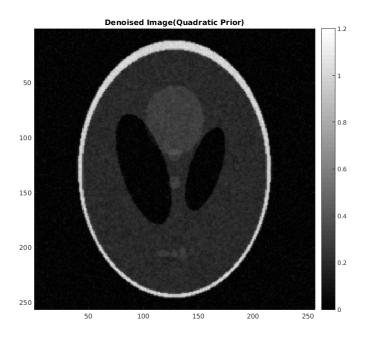
Discontinuity-adaptive Prior

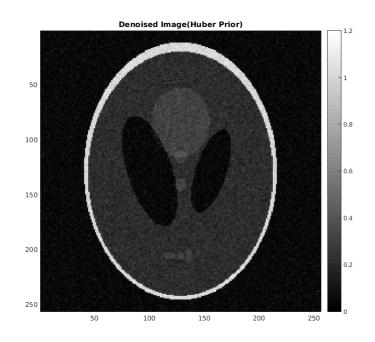
- Optimal α is 0.005 and γ is 0.0011
- RRMSE ar α and γ is 0.06926
- RRMSE at 0.8α and γ is 0.06930
- RRMSE at 1.2α and γ is 0.06961
- RRMSE at α and 0.8γ is 0.06961
- RRMSE at α and 1.2γ is 0.06954

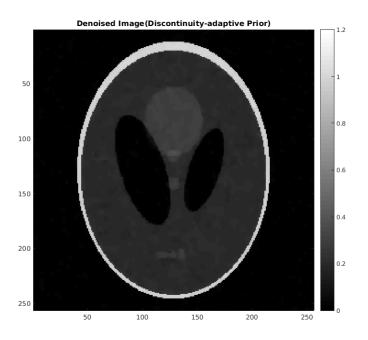
(c)











(d)

