CS663: Digital Image Processing
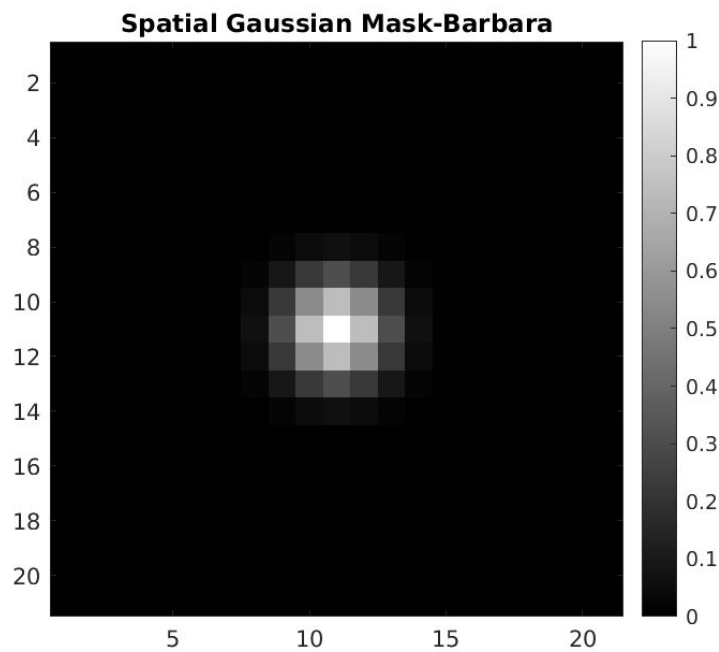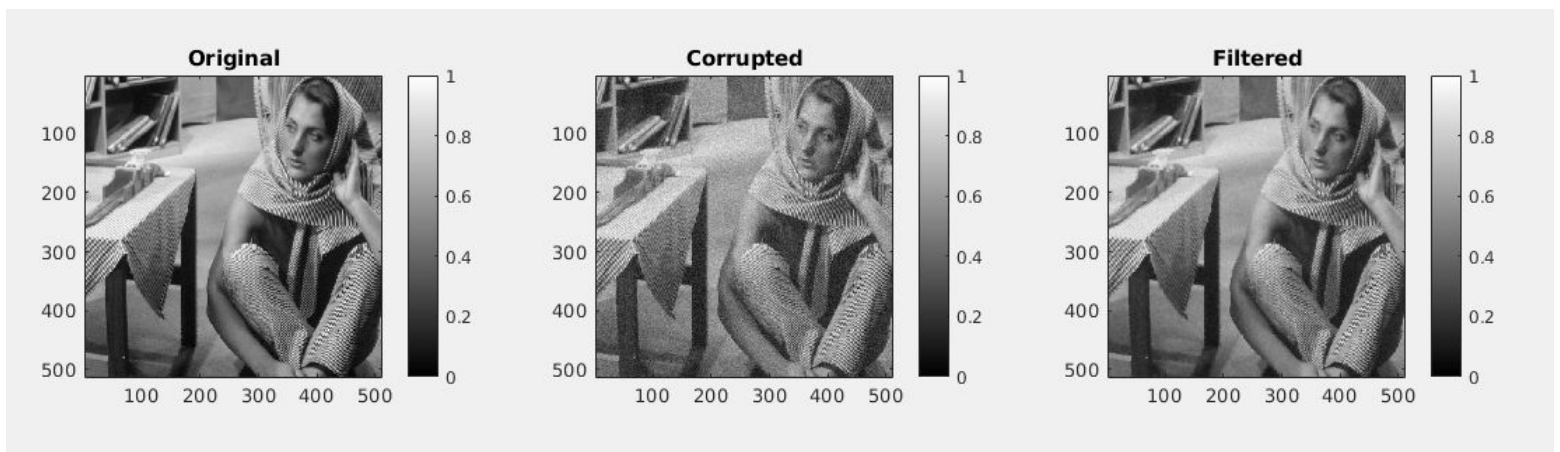## Assignment 2 - Report

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QUESTION-2

Part A - Barbara

RMSD (Original and Corrupted) = 5.0159

Optimal values
RMSD = 3.2891 , $\quad$ *Spatial* $\sigma_d = 1.3$, $\quad$ *Intensity* $\sigma_i = 11$

Different σ cases	RMSD value
$0.9 * \sigma_d$ and σ_i	3.2957
σ_d and $0.9 * \sigma_i$	3.2951
$1.1 * \sigma_d$ and σ_i	3.2954
σ_d and $1.1 * \sigma_i$	3.3310

Part B - Grass

Spatial Gaussian Mask-Grass
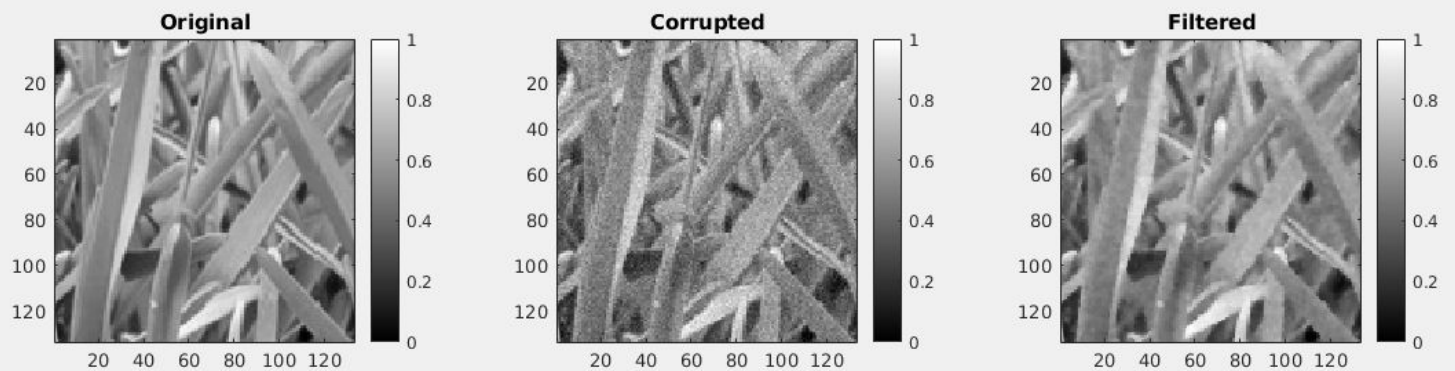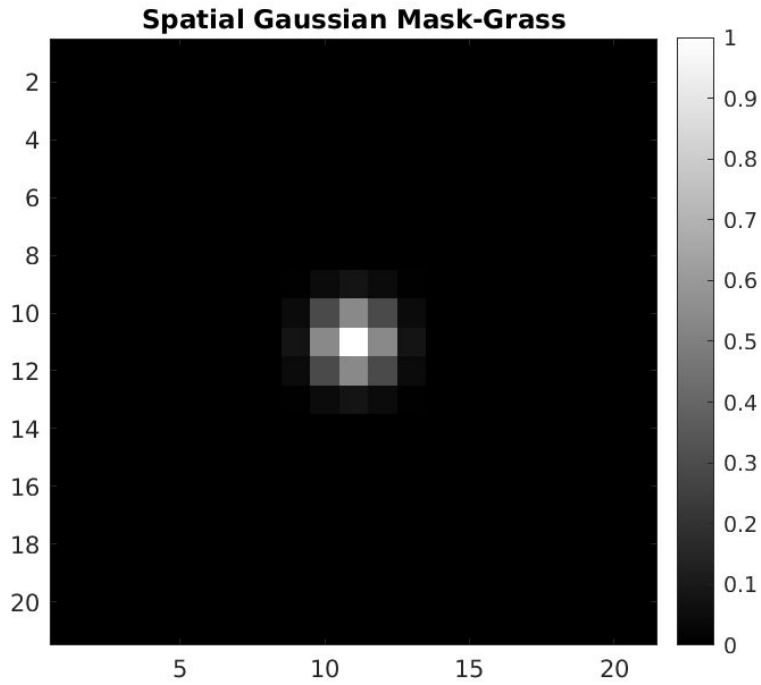
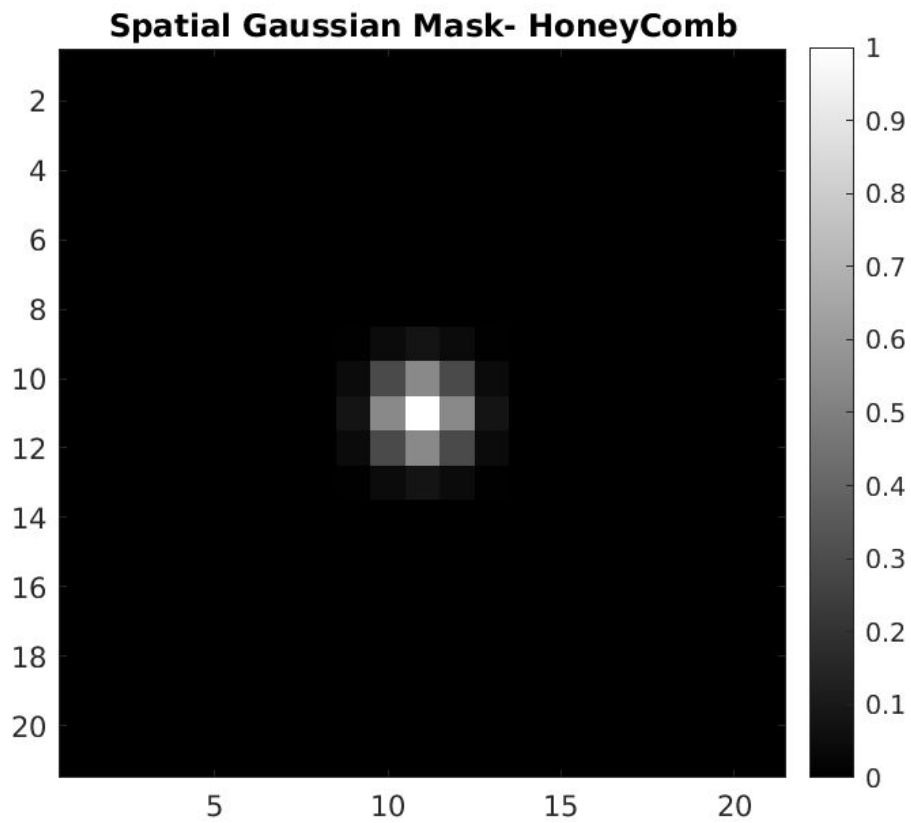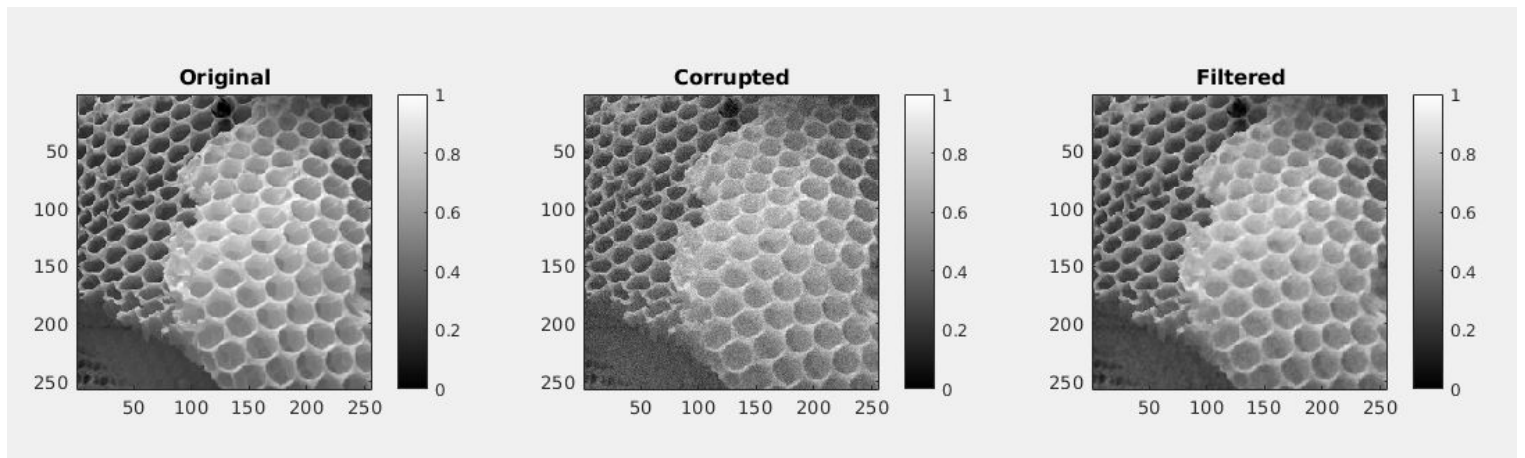RMSD (Original and Corrupted) = 11.8676

Optimal values

RMSD = 7.3047 , *Spatial* $\sigma_d = 0.9$, *Intensity* $\sigma_i = 37$

Different σ cases	RMSD value
$0.9 * \sigma_d$ and σ_i	7.4809
σ_d and $0.9 * \sigma_i$	7.3802
$1.1 * \sigma_d$ and σ_i	7.7543
σ_d and $1.1 * \sigma_i$	7.3801

Part C - HoneyComb

Spatial Gaussian Mask- HoneyComb

RMSD (Original and Corrupted) = 12.7189

Optimal values
RMSD =7.2555 , $Spatial\ \sigma_d = 0.9$, $Intensity\ \sigma_i = 40$

Different σ cases	RMSD value
$0.9 * \sigma_d$ and σ_i	7.3717
σ_d and $0.9 * \sigma_i$	7.3591
$1.1 * \sigma_d$ and σ_i	7.3331
σ_d and $1.1 * \sigma_i$	7.2810