# Extracted Features

### Common features for all preprocessing filters:

firstorder\_10Percentile  
firstorder\_90Percentile  
firstorder\_Energy  
firstorder\_Entropy  
firstorder\_InterquartileRange  
firstorder\_Kurtosis  
firstorder\_Maximum  
firstorder\_Mean  
firstorder\_MeanAbsoluteDeviation  
firstorder\_Median  
firstorder\_Minimum  
firstorder\_Range  
firstorder\_RobustMeanAbsoluteDeviation  
firstorder\_RootMeanSquared  
firstorder\_Skewness  
firstorder\_TotalEnergy  
firstorder\_Uniformity  
firstorder\_Variance  
glcm\_Autocorrelation  
glcm\_ClusterProminence  
glcm\_ClusterShade  
glcm\_ClusterTendency  
glcm\_Contrast  
glcm\_Correlation  
glcm\_DifferenceAverage  
glcm\_DifferenceEntropy  
glcm\_DifferenceVariance  
glcm\_Id  
glcm\_Idm  
glcm\_Idmn  
glcm\_Idn  
glcm\_Imc1  
glcm\_Imc2  
glcm\_InverseVariance  
glcm\_JointAverage  
glcm\_JointEnergy  
glcm\_JointEntropy  
glcm\_MaximumProbability  
glcm\_SumEntropy  
glcm\_SumSquares  
gldm\_DependenceEntropy  
gldm\_DependenceNonUniformity  
gldm\_DependenceNonUniformityNormalized  
gldm\_DependenceVariance  
gldm\_GrayLevelNonUniformity  
gldm\_GrayLevelVariance  
gldm\_HighGrayLevelEmphasis  
gldm\_LargeDependenceEmphasis  
gldm\_LargeDependenceHighGrayLevelEmphasis  
gldm\_LargeDependenceLowGrayLevelEmphasis  
gldm\_LowGrayLevelEmphasis  
gldm\_SmallDependenceEmphasis  
gldm\_SmallDependenceHighGrayLevelEmphasis  
gldm\_SmallDependenceLowGrayLevelEmphasis  
glrlm\_GrayLevelNonUniformity  
glrlm\_GrayLevelNonUniformityNormalized  
glrlm\_GrayLevelVariance  
glrlm\_HighGrayLevelRunEmphasis  
glrlm\_LongRunEmphasis  
glrlm\_LongRunHighGrayLevelEmphasis  
glrlm\_LongRunLowGrayLevelEmphasis  
glrlm\_LowGrayLevelRunEmphasis  
glrlm\_RunEntropy  
glrlm\_RunLengthNonUniformity  
glrlm\_RunLengthNonUniformityNormalized  
glrlm\_RunPercentage  
glrlm\_RunVariance  
glrlm\_ShortRunEmphasis  
glrlm\_ShortRunHighGrayLevelEmphasis  
glrlm\_ShortRunLowGrayLevelEmphasis  
glszm\_GrayLevelNonUniformity  
glszm\_GrayLevelNonUniformityNormalized  
glszm\_GrayLevelVariance  
glszm\_HighGrayLevelZoneEmphasis  
glszm\_LargeAreaEmphasis  
glszm\_LargeAreaHighGrayLevelEmphasis  
glszm\_LargeAreaLowGrayLevelEmphasis  
glszm\_LowGrayLevelZoneEmphasis  
glszm\_SizeZoneNonUniformity  
glszm\_SizeZoneNonUniformityNormalized  
glszm\_SmallAreaEmphasis  
glszm\_SmallAreaHighGrayLevelEmphasis  
glszm\_SmallAreaLowGrayLevelEmphasis  
glszm\_ZoneEntropy  
glszm\_ZonePercentage  
glszm\_ZoneVariance  
ngtdm\_Busyness  
ngtdm\_Coarseness  
ngtdm\_Complexity  
ngtdm\_Contrast  
ngtdm\_Strength

### Features in Original

shape\_Elongation  
shape\_Flatness  
shape\_LeastAxisLength  
shape\_MajorAxisLength  
shape\_Maximum2DDiameterColumn  
shape\_Maximum2DDiameterRow  
shape\_Maximum2DDiameterSlice  
shape\_Maximum3DDiameter  
shape\_MeshVolume  
shape\_MinorAxisLength  
shape\_Sphericity  
shape\_SurfaceArea  
shape\_SurfaceVolumeRatio  
shape\_VoxelVolume