LIST OF SYMBOLS

$I_0(x,y)$	Observed noisy image
I(x, y)	Original noise free image
n(x, y)	Multiplicative noise with zero mean
$\eta(x,y)$	Detector noise which is additive in nature
σ_n^2	Variance
$\overline{J}_0(.)$	Modified zero order Bessel function
<i>u</i> (.)	Unit step Heaviside function
M	Magnitude MR Image
$\phi(\ \nabla I\ $	Energy function defined in terms of gradient norm of the image
σ	Standard deviations
L(P(I/M))	Negative likelihood term of Rician distributed noise
$c(\ \nabla I\)$	Conductivity coefficient
γ	Gradient threshold
Δt	Integration constant
λ	Regularization parameter
Z	Complex number
n	Positive integer
k_{1}	Positive number
$c(\operatorname{Im}(I))$	Diffusion coefficient
k	Edge threshold parameter
α	Constants
k_0	Constants
θ	Used as a parameter in the diffusion coefficient

 ψ Correction factor

 k_2 Scale factor

 $I(n_j)$ Pixel value

 $I(n_m)$ Pixel value

 n_j Centered on the pixel j

 n_m Centered on the pixel m

h Factor which controls the decay

 λ_1 Constant to be set according to noise pattern

 λ_2 Constant to be set according to noise pattern

 λ_3 Constant to be set according to noise pattern

epsy Lowest machine number value