Table 2

Application of different methods on the 18 Brainweb T1-weighted images with different Rician noise levels and a 20% inhomogeneity

Methods	White matter (%)						Grey matter (%)				
Noise Level	0	1	5	7	9	0	1	3	5	7	9
EM	86.1	91.5	92.2	90.1	86.4	83.1	90.8	92.5	92	89.1	84.2
SPM 5	91.05	94.2	93.6	90.2	86.3	91.2	93.4	93.3	92.1	90	86.6
HMC	97.8	95.7	93.9	937	91.7	97	94.5	95.9	93.8	92.7	91.1
NL-FCM	95.6	94.2	91.5	89.8	83.2	95.4	94.1	93.8	92.9	89.9	79.3
FCM	97.1	96	92	88	84	97	96	91	86	87	83
Proposed-Method	96.8	94.9	93.7	93.9	92.1	95.7	95.4	92.8	92.6	92.1	91.2