

Table 1. Experimental segmentation results of automatic GrabCut initialized using different clustering techniques.

Image	Error rate %			Overlap Score rate %		
	Orchard and Bouman	SOFM	FCM	Orchard and Bouman	SOFM	FCM
1	18.70	3.15	24.92	58.57	95.68	43.97
2	5.74	2.80	2.80	75.69	93.70	93.70
3	7.31	6.00	4.95	85.48	89.12	91.21
4	3.09	3.67	61.00	97.02	95.63	38.40
5	3.75	36.48	36.54	85.18	29.16	29.13
6	0.86	0.86	0.86	97.17	97.16	97.16
7	2.40	2.40	2.40	69.01	68.93	69.00
8	1.08	2.18	1.92	90.81	80.83	82.98
9	2.17	12.87	2.15	97.31	81.31	97.35
10	2.81	4.15	4.15	96.35	94.33	94.26
11	2.05	2.17	2.17	97.04	96.71	96.71
12	4.93	4.93	4.92	89.32	89.32	89.35
13	2.30	2.30	2.33	95.64	95.64	95.53
14	2.56	3.96	2.49	96.41	93.27	96.59
15	3.50	2.89	2.89	91.98	94.03	94.05
16	3.02	2.98	2.98	93.80	94.26	94.26
17	2.10	2.16	2.16	95.11	94.75	94.75
18	3.86	3.88	3.88	91.06	90.98	90.98
19	2.92	2.88	37.10	93.30	93.43	38.35
20	1.44	1.46	1.47	96.43	96.34	96.33
21	1.27	1.27	1.28	94.64	94.64	94.61
22	3.16	3.44	3.17	93.73	93.07	93.71
23	2.58	3.27	2.56	93.74	91.15	93.78
Average	3.64	4.88	9.18	90.21	88.85	82.80
SD	3.61	7.28	15.49	9.87	14.54	22.24