

1) TOP-down Prior from ME

	Blei-Jordan (SIS 10 th)		Blei-Jordan (SIS 0th)		Collapsed (csb)	
	K=10	K=20	K=10	K=20	K=10	K=20
#cluster (mean, std)	4.1 (0.3)	4.1 (0.3)	5.50 (1.58)	5.40 (1.50)	6.2 (1.6)	6.3 (0.94)
Rand Index	0.999 (1e-4)	0.999 (1e-3)	0.97 (0.01)	0.98 (0.02)	0.97 (0.22)	0.83 (0.09)

ME

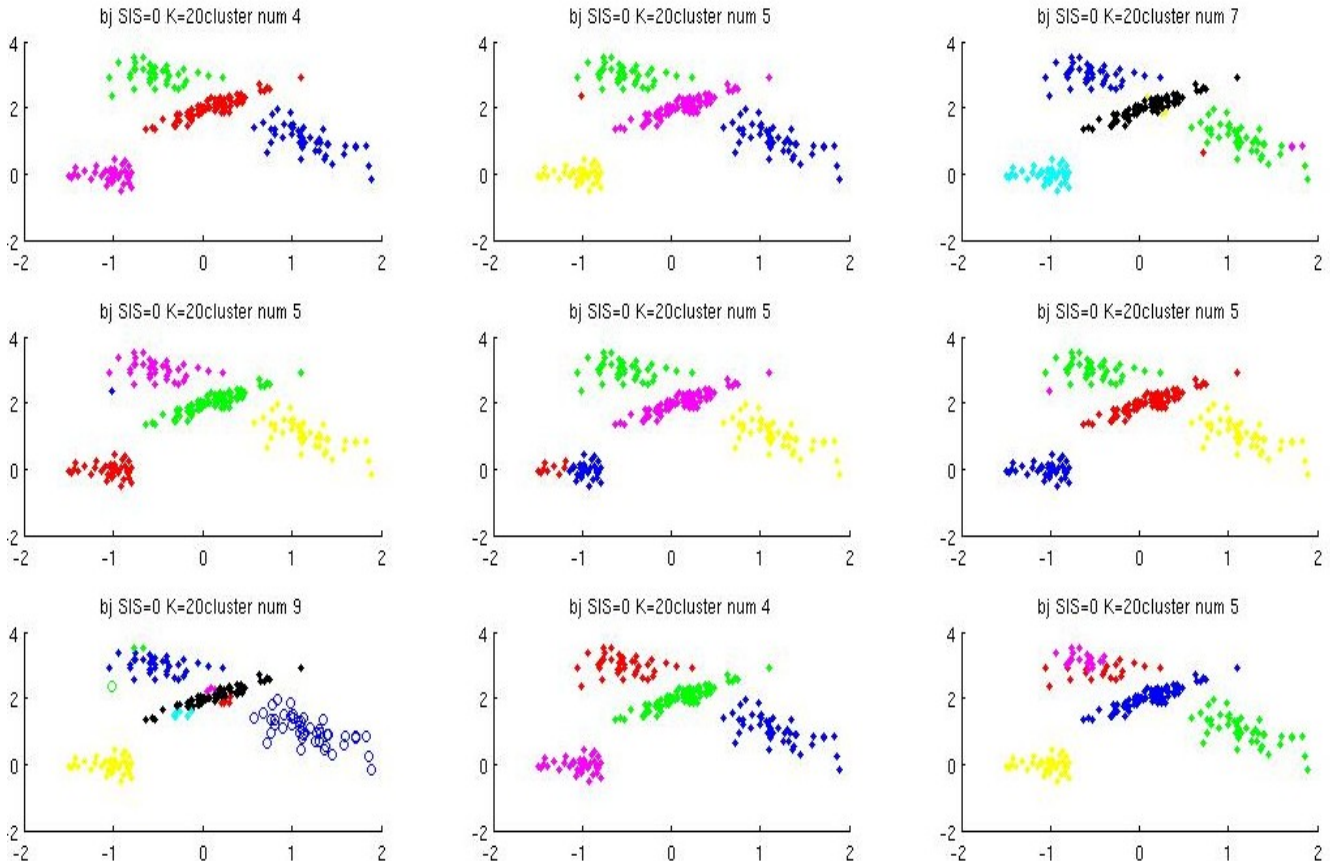
Bottom-up: 4
Top-down: 4
Local-search:

- 1) random update scheme:17(1.44)
(merge into 12.6 (6.2))
- 2) normal update scheme:
18 (merge into 8)

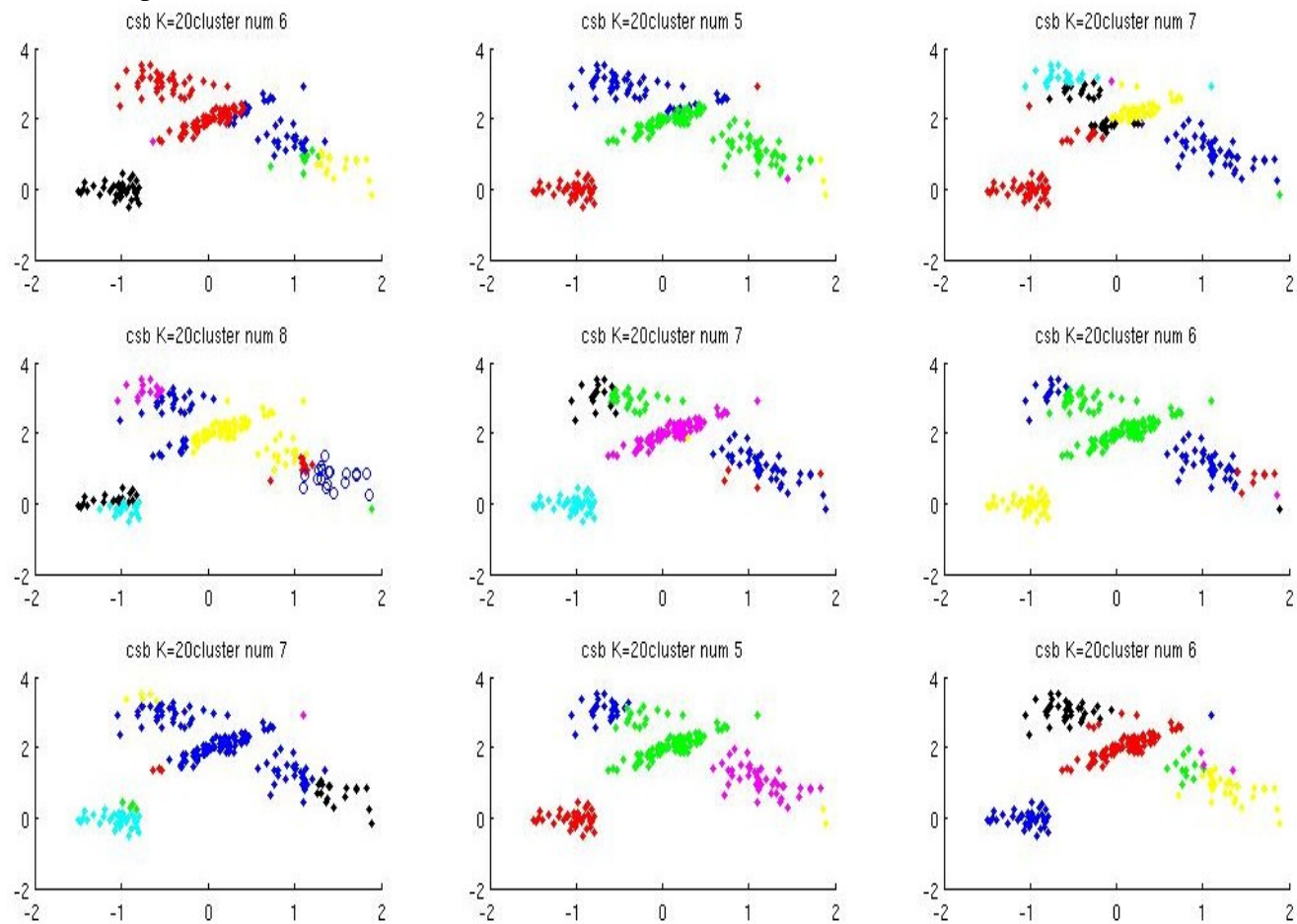
Bottom-up: 1
Top-down: 1
Local-search:

- 1) random update scheme:0.80
after merging: 0.88(0.1)
- 2) normal update scheme: 0.85 (0.93)

1_a) EE with random initialization, 20 initial clusters



1_b) Collapsed EE with random initialization, 20 initial clusters



2) EE's default prior (Kurihara's package)

	Blei-Jordan (SIS 10 th)		Blei-Jordan (SIS 0th)		Collapsed (csb)	
	K=10	K=20	K=10	K=20	K=10	K=20
#cluster (mean, std)	4.1 (0.3)	4.1 (0.3)	6.89 (1.27)	7.56 (1.70)	5.6 (1.6)	7.4 (2.0)
Rand Index	0.999 (1e-4)	0.999 (1e-3)	0.97 (0.02)	0.93 (0.04)	0.90 (0.11)	0.87 (0.09)

ME

Bottom-up: 4

Top-down: 4

Local-search:

a) bottom-up prior: 12 (merge into 5)

a) top-down prior: 56 (merge into 12)

Bottom-up: 1

Top-down: 1

Local-search:

a) bottom-up prior: 0.85 (0.97)

b) top-down prior: 0.73 (0.82)

