

Table S1 The effect of the constant, c , in Equation 3 on accuracy. Accuracy is calculated on the Apple dataset using the given values of k and l .

	k	3			5			10		
		l	10	20	30	10	20	30	10	20
Constant	0.1	0.9162	0.923	0.7356	0.9198	0.9242	0.7356	0.9229	0.9228	0.7356
	0.2	0.9162	0.9233	0.7356	0.9198	0.9247	0.7356	0.9236	0.9234	0.7356
	0.5	0.9163	0.9238	0.7356	0.9199	0.9248	0.7356	0.9237	0.9232	0.7356
	1	0.9173	0.9236	0.7356	0.9204	0.9246	0.7356	0.9231	0.9235	0.7356
	2	0.9172	0.9243	0.7356	0.9206	0.9247	0.7356	0.9223	0.9219	0.7356
	5	0.9174	0.9237	0.7356	0.9204	0.9234	0.7356	0.9215	0.9214	0.7356
	10	0.9174	0.9238	0.7356	0.9204	0.9233	0.7356	0.9214	0.9214	0.7356