

Experimental Result

1. Graph complexity analysis

1. Pathways
2. BioGPS: 671 connected components
3. HPRD: 248 connected components

2. The performance of CDNK on each layer using both discrete label or continuous labels on the disease 6th.

Disease	Dataset	Diffusion source	Discrete	Continuous
6	BioGPS	HPRD	0.65	0.66
		BioGPS		0.66
		Pathways		0.66

3. Performance of CDNK with different union graph cases

Disease	Union Pathways, BioGPS, HPRD and Using Discrete Label	Union BioGPS, HPRD and Using Vector Label	HPRD and Using Vector Label
0	0.81	0.73	0.65
1	0.64	0.54	0.54
2	0.83	0.83	0.62
3	0.64	0.61	0.46
4	0.62	0.74	0.77
5	0.71	0.73	0.63
6	0.94	0.75	0.76
7	0.90	0.72	0.75
8	0.70	0.74	0.68
9	0.72	0.68	0.55
10	0.80	0.81	0.59
11	0.84	0.68	0.70
Overall	0.79	0.72	0.67