

CADA - Supplementary Material

Graphs	Dimensions	Walk length	Number of walks	Window size	p	q
G_0	200	60	10	4	0.978	1.740
G_{25}	140	30	16	5	1.125	3.923
G_{50}	120	20	32	6	0.368	3.509
G_{75}	140	40	16	6	0.358	3.422
G_{100}	300	60	10	4	1.799	3.875

Supplementary table 1. Optimized hyperparameters in Node2vec across five graphs

Graphs	Top1		Top5		Top10		Top50		Top100	
	accuracy	interval	accuracy	interval	accuracy	interval	accuracy	interval	accuracy	interval
G_0	8.6%	[8.3%, 8.8%]	20.1%	[19.5%, 20.6%]	26.6%	[25.8%, 27.3%]	47.2%	[46.5%, 47.9%]	57.6%	[56.9%, 58.3%]
G_{25}	11.2%	[10.6%, 11.8%]	22.7%	[22.4%, 23.0%]	29.3%	[28.9%, 29.8%]	49.6%	[49.3%, 49.9%]	60.1%	[59.8%, 60.4%]
G_{50}	12.8%	[12.2%, 13.3%]	26.1%	[25.6%, 26.5%]	32.6%	[32.1%, 33.0%]	52.6%	[52.0%, 53.2%]	62.9%	[62.4%, 63.3%]
G_{75}	14.3%	[13.8%, 14.9%]	28.1%	[27.4%, 28.8%]	34.9%	[34.6%, 35.3%]	54.7%	[54.2%, 55.1%]	64.4%	[63.9%, 64.9%]
G_{100}	14.9%	[14.4%, 15.4%]	28.0%	[27.4%, 28.5%]	34.9%	[34.5%, 35.3%]	54.9%	[54.5%, 55.3%]	65.0%	[64.3%, 65.6%]

Supplementary table 2. Validation accuracy values and 95% confidence intervals during the graph extension. The values and the 95% confidence intervals are computed from 10 repeated embeddings per graph.