
Addendum to the Appendix

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We found two small errors in the appendix which we fix in the following:

1. In Table 6 in the appendix we didn't show in a bold font some of the results for SmoothDeepWalk (SDW). See the corrected version in Table 6.
2. In Figure 20 in the appendix, for the Flickr graph we show the results for SmoothNode2Vec for link prediction instead for node classification. See the correct plot in the updated Figure 20.

Table 6: Precision@100 and Recall@100 scores for link prediction for SmoothDeepWalk (SDW), SmoothNode2Vec (SN2V) and other methods. OOM stands for out-of-memory. The best score is shown in **bold**, more than one score is in bold if there is no statistically significant difference between the best scores.

	Cora	Citeseer	Pubmed	Deezer	Git	Flickr	Wiki	Blog
Precision@100 scores								
DW	1.55	0.86	1.92	3.9	6.36	0.49	7.88	18.11
N2V	1.54	0.89	2.15	3.8	5.87	0.67	8.32	19.58
SNS	1.54	0.85	> 24h	> 24h	> 24h	> 24h	6.82	> 24h
NEPS	1.56	0.87	> 24h	> 24h	> 24h	> 24h	8.12	> 24h
Walklets	1.34	0.28	0.55	1.95	0.31	0.0	0.39	0.07
Verse	1.33	0.46	2.03	3.48	2.91	0.58	2.86	1.52
NetMF1	1.5	0.42	1.03	1.68	0.02	0.03	2.13	1.9
NetMF2	1.52	0.43	1.23	2.43	0.02	0.8	0.7	2.48
Line1	1.46	0.32	0.62	2.86	0.82	1.34	0.94	1.42
Line2	1.28	0.38	0.2	1.68	0.02	0.0	0.49	0.01
res2vec(MF)	1.44	0.38	0.0	0.8	0.02	OOM	1.27	1.04
res2vec(SGD)	1.42	0.66	0.9	1.29	0.72	2.4	0.29	0.34
SDW	1.53	0.86	3.01	4.94	9.54	1.13	9.11	17.67
SN2V	1.54	0.89	3.03	4.72	9.58	1.29	8.82	19.39
Recall@100 scores								
	Cora	Citeseer	Pubmed	Deezer	Git	Flickr	Wiki	Blog
DW	75.43	60.17	11.46	10.85	5.51	0.27	21.97	13.66
N2V	75.2	62.5	12.96	10.59	5.08	0.37	22.86	14.78
SNS	75.38	60.15	> 24h	> 24h	> 24h	> 24h	18.82	> 24h
NEPS	75.47	60.6	> 24h	> 24h	> 24h	> 24h	21.02	> 24h
Walklets	57.2	19.5	3.3	5.3	0.27	0.0	1.08	0.05
Verse	59.78	29.42	12.21	9.42	2.52	0.32	7.73	1.13
NetMF1	66.19	26.25	6.09	4.56	0.01	0.02	5.69	1.41
NetMF2	64.89	27.08	7.39	6.62	0.01	0.44	1.89	1.86
Line1	61.27	21.17	3.76	7.84	0.7	0.75	2.58	1.06
Line2	56.7	25.67	1.25	4.57	0.02	0.0	1.33	0.01
res2vec(MF)	61.7	24.0	0.0	2.19	0.02	OOM	3.4	0.77
res2vec(SGD)	60.7	41.17	5.22	3.51	0.63	1.59	0.79	0.25
SDW	74.98	60.67	17.81	13.76	8.27	0.63	25.08	13.34
SN2V	75.6	62.5	18.03	13.12	8.3	0.72	24.23	14.63

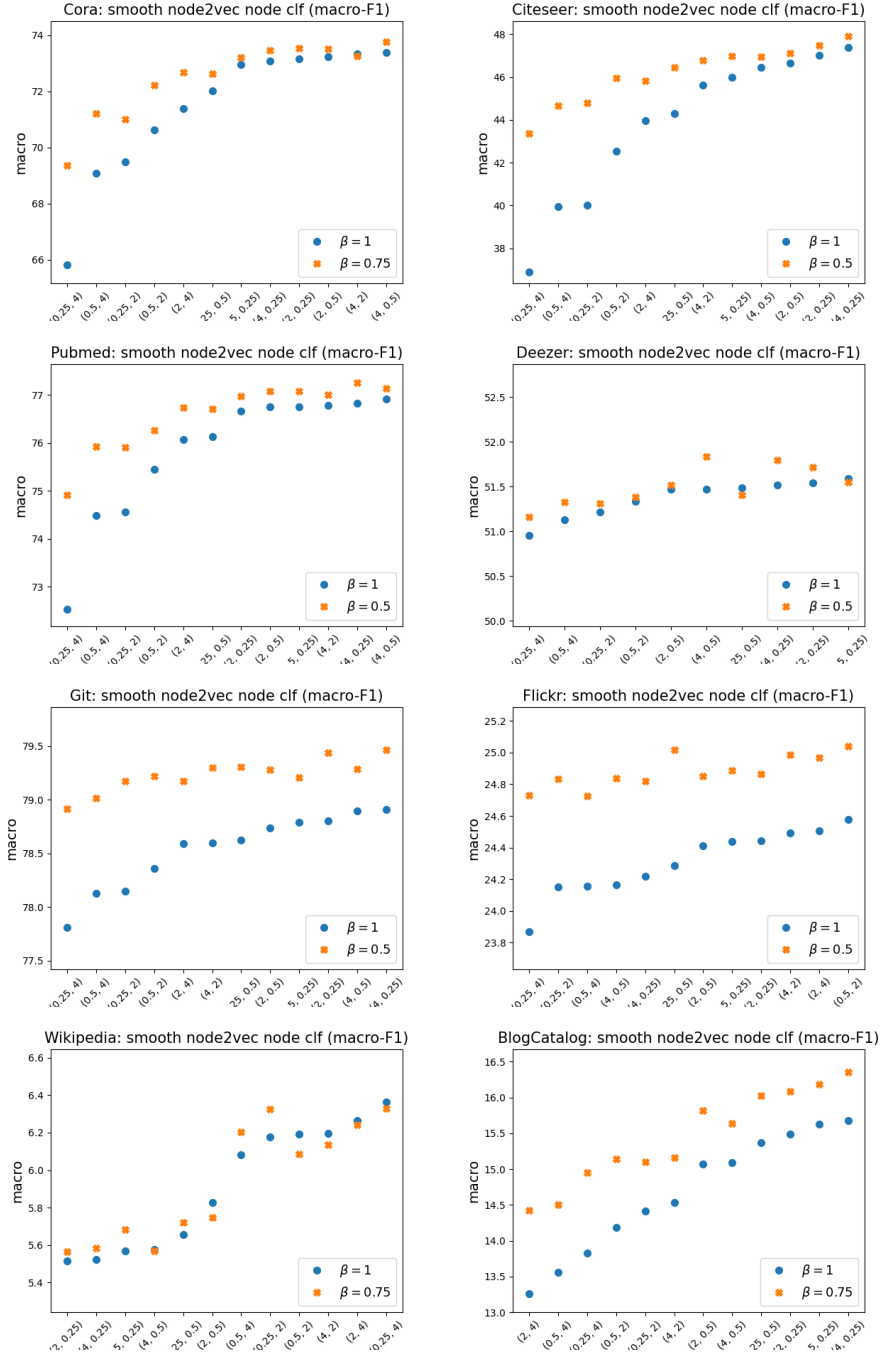


Figure 20: Macro-F1 scores for SmoothNode2Vec(p, q) for varying p and q .