Addendum to the Appendix

Anonymous Author Anonymous Institution

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
			Preci	sion@10	0 scor	es		
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
	Cora	Citeseer	Reca Pubmed	all@100 Deezer	Scores	5 Flickr	Wiki	Blog
DW	75.43	60.17	11.46	10.85	5.51	0.27	21.97	
N2V	75.2		-					13.66
	13.4	62.5	12.96		5.08	0.37		13.66 14.78
SNS		62.5 60.15	12.96 > 24h	10.59	5.08 > 24h	0.37 > 24h	22.86	14.78
SNS NEPS	75.2 75.38 75.47	62.5 60.15 60.6	12.96 > 24h > 24h	10.59 > 24h	> 24h	> 24h		14.78 > 24h
	75.38	60.15	> 24h	10.59			22.86 18.82	14.78
NEPS	75.38 75.47	60.15 60.6	> 24h > 24h	10.59 > 24h > 24h	> 24h > 24h	> 24h > 24h	22.86 18.82 21.02	14.78 > 24h > 24h
NEPS Walklets	75.38 75.47 57.2	60.15 60.6 19.5	> 24h > 24h 3.3	10.59 > 24h > 24h 5.3	> 24h > 24h 0.27	> 24h > 24h 0.0	22.86 18.82 21.02 1.08	14.78 > 24h > 24h 0.05
NEPS Walklets Verse	75.38 75.47 57.2 59.78	60.15 60.6 19.5 29.42	> 24h > 24h 3.3 12.21	10.59 > 24h > 24h 5.3 9.42	> 24h > 24h 0.27 2.52	> 24h > 24h 0.0 0.32	22.86 18.82 21.02 1.08 7.73	14.78 > 24h > 24h 0.05 1.13
NEPS Walklets Verse NetMF1	75.38 75.47 57.2 59.78 66.19	60.15 60.6 19.5 29.42 26.25	> 24h > 24h 3.3 12.21 6.09	10.59 > 24h > 24h 5.3 9.42 4.56	> 24h > 24h 0.27 2.52 0.01	> 24h > 24h 0.0 0.32 0.02	22.86 18.82 21.02 1.08 7.73 5.69	14.78 > 24h > 24h 0.05 1.13 1.41
NEPS Walklets Verse NetMF1 NetMF2	75.38 75.47 57.2 59.78 66.19 64.89	60.15 60.6 19.5 29.42 26.25 27.08	> 24h > 24h 3.3 12.21 6.09 7.39	10.59 > 24h > 24h 5.3 9.42 4.56 6.62	> 24h > 24h 0.27 2.52 0.01 0.01	> 24h > 24h 0.0 0.32 0.02 0.44	22.86 18.82 21.02 1.08 7.73 5.69 1.89	14.78 > 24h > 24h 0.05 1.13 1.41 1.86
NEPS Walklets Verse NetMF1 NetMF2 Line1	75.38 75.47 57.2 59.78 66.19 64.89 61.27	60.15 60.6 19.5 29.42 26.25 27.08 21.17	> 24h > 24h 3.3 12.21 6.09 7.39 3.76	10.59 > 24h > 24h 5.3 9.42 4.56 6.62 7.84	> 24h > 24h 0.27 2.52 0.01 0.01 0.7	> 24h > 24h 0.0 0.32 0.02 0.44 0.75	22.86 18.82 21.02 1.08 7.73 5.69 1.89 2.58	14.78 > 24h > 24h 0.05 1.13 1.41 1.86 1.06
NEPS Walklets Verse NetMF1 NetMF2 Line1 Line2	75.38 75.47 57.2 59.78 66.19 64.89 61.27 56.7	60.15 60.6 19.5 29.42 26.25 27.08 21.17 25.67	> 24h > 24h 3.3 12.21 6.09 7.39 3.76 1.25	10.59 > 24h > 24h 5.3 9.42 4.56 6.62 7.84 4.57	> 24h > 24h 0.27 2.52 0.01 0.01 0.7 0.02	> 24h > 24h 0.0 0.32 0.02 0.44 0.75 0.0	22.86 18.82 21.02 1.08 7.73 5.69 1.89 2.58 1.33	14.78 > 24h > 24h 0.05 1.13 1.41 1.86 1.06 0.01
NEPS Walklets Verse NetMF1 NetMF2 Line1 Line2 res2vec(MF)	75.38 75.47 57.2 59.78 66.19 64.89 61.27 56.7 61.7	60.15 60.6 19.5 29.42 26.25 27.08 21.17 25.67 24.0	> 24h > 24h 3.3 12.21 6.09 7.39 3.76 1.25 0.0	10.59 > 24h > 24h 5.3 9.42 4.56 6.62 7.84 4.57 2.19	> 24h > 24h 0.27 2.52 0.01 0.01 0.7 0.02 0.02	> 24h > 24h 0.0 0.32 0.02 0.44 0.75 0.0 OOM	22.86 18.82 21.02 1.08 7.73 5.69 1.89 2.58 1.33 3.4	14.78 > 24h > 24h 0.05 1.13 1.41 1.86 1.06 0.01 0.77

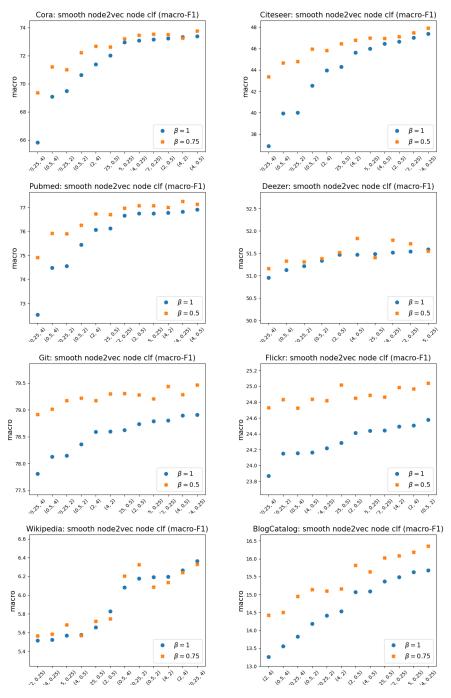


Figure 20: Macro-F1 scores for SmoothNode2Vec(p,q) for varying p and q.