Table 1: AP of TGNNs under the inductive negative sampling strategy introduced in Poursafaei et al. (2022).

	EN	$\mathbf{L}\mathbf{A}$	UC	UV
TGN +TPE, TRC Imp. (%)	$70.89 \pm 2.72 \\ 80.93 \pm 4.77 \\ 14.16\%$	$65.95 \pm 5.98 78.84 \pm 0.09 19.54\%$	70.94 ± 0.71 75.60 ± 0.29 6.56%	$67.63 \pm 2.67 74.17 \pm 2.47 9.66\%$
CAWN +TPE, TRC Imp. (%)	75.88 ± 0.00 81.88 ± 0.01 7.91%	$66.90 \pm 0.01 78.76 \pm 0.01 17.72\%$	$63.10 \pm 0.01 71.67 \pm 0.03 13.57\%$	$53.20 \pm 0.01 72.66 \pm 0.02 36.57\%$
DyGFormer +TPE, TRC Imp. (%)	$77.41 \pm 0.89 80.89 \pm 0.25 4.50\%$	$72.88 \pm 0.50 73.63 \pm 0.64 1.03\%$	$72.25 \pm 1.71 75.39 \pm 1.13 4.35\%$	51.91 ± 0.84 61.43 ± 4.82 18.33%

Table 2: AP of TGNNs under the historical negative sampling strategy introduced in Poursafaei et al. (2022).

	EN	LA	UC	UV
TGN +TPE, TRC Imp. (%)	73.91 ± 1.76 77.38 ± 5.45 4.69%	$76.87 \pm 4.64 83.29 \pm 0.95 8.35\%$	80.43 ± 2.12 74.81 ± 0.05 -6.99%	$69.37 \pm 3.93 69.40 \pm 0.78 0.04\%$
CAWN +TPE, TRC Imp. (%)	$65.72 \pm 0.00 71.41 \pm 0.02 8.66\%$	69.75 ± 0.00 81.49 ± 0.00 16.82%	64.25 ± 0.00 82.24 ± 0.00 27.99%	$51.00 \pm 0.00 81.40 \pm 0.00 59.61\%$
DyGFormer +TPE, TRC Imp. (%)	75.63 ± 0.73 75.14 ± 0.03 -0.65%	$81.57 \pm 0.48 \\ 82.88 \pm 1.35 \\ 1.60\%$	$82.17 \pm 0.82 \\ 82.81 \pm 0.49 \\ 0.78\%$	60.84 ± 1.58 53.94 ± 0.78 -11.35%

Table 3: MRR of TGNNs under various numbers of negative links during testing.

	EN	LA	UC	$\overline{\mathbf{U}\mathbf{V}}$
$\overline{\text{NEG} = 1}$				
GraphMixer +Log-TE, TRC Imp. (%)	$0.165 \pm 0.004 \\ 0.258 \pm 0.000 \\ 55.73\%$	$0.197 \pm 0.008 \\ 0.260 \pm 0.033 \\ 32.10\%$	$0.522 \pm 0.006 \\ 0.615 \pm 0.020 \\ 17.77\%$	$0.032 \pm 0.001 \\ 0.037 \pm 0.000 \\ 18.17\%$
NEG = 25				
GraphMixer +Log-TE, TRC Imp. (%)	$0.019 \pm 0.000 \\ 0.024 \pm 0.002 \\ 28.16\%$	$0.046 \pm 0.000 \\ 0.060 \pm 0.000 \\ 29.05\%$	$0.170 \pm 0.004 \\ 0.185 \pm 0.019 \\ 9.06\%$	$\begin{array}{c} 0.0020 \pm 0.000 \\ 0.0024 \pm 0.000 \\ 20.00\% \end{array}$
NEG = 50				
GraphMixer +Log-TE, TRC Imp. (%)	$0.011 \pm 0.000 \\ 0.013 \pm 0.001 \\ 21.80\%$	$0.034 \pm 0.000 \\ 0.042 \pm 0.003 \\ 22.89\%$	$0.120 \pm 0.001 \\ 0.136 \pm 0.019 \\ 13.46\%$	$0.0011 \pm 0.000 \\ 0.0013 \pm 0.000 \\ 13.04\%$

Table 4: MRR of TGNNs under various numbers of negative links during testing.

	EN	LA	UC	$\overline{\mathbf{U}\mathbf{V}}$
NEG = 1				
DyGFormer +Log-TE, TRC Imp. (%)	$0.326 \pm 0.001 \\ 0.345 \pm 0.003 \\ 5.78\%$	$0.392 \pm 0.009 \\ 0.435 \pm 0.019 \\ 11.03\%$	$0.728 \pm 0.011 \\ 0.743 \pm 0.004 \\ 2.08\%$	$0.038 \pm 0.001 \\ 0.035 \pm 0.001 \\ -7.77\%$
NEG = 25				
DyGFormer +Log-TE, TRC Imp. (%)	$0.042 \pm 0.000 \\ 0.044 \pm 0.000 \\ 3.77\%$	$0.090 \pm 0.007 \\ 0.115 \pm 0.010 \\ 27.15\%$	$0.266 \pm 0.031 \\ 0.301 \pm 0.013 \\ 13.27\%$	$\begin{array}{c} 0.002 \pm 0.000 \\ 0.003 \pm 0.000 \\ 2.04\% \end{array}$
$\overline{\rm NEG} = 50$				
DyGFormer +Log-TE, TRC Imp. (%)	$0.023 \pm 0.000 \\ 0.025 \pm 0.001 \\ 11.89\%$	$0.063 \pm 0.005 \\ 0.080 \pm 0.006 \\ 25.63\%$	$0.194 \pm 0.029 \\ 0.233 \pm 0.008 \\ 19.93\%$	$0.0012 \pm 0.000 \\ 0.0013 \pm 0.000 \\ 8.33\%$