DRUG						
Model	COD↓	CAD↓	CHD↓	CLD↓	IND↑	KL↓
GCN_{KL}	$0.220_{\pm.025}$	$9.209_{\pm.740}$	$0.245_{\pm.031}$	$1.963_{\pm.134}$	$0.676_{\pm.029}$	$0.484_{\pm.075}$
HAN_{KL}	$0.279_{\pm.023}$	$10.084_{\pm.823}$	$0.268_{\pm.027}$	$2.155_{\pm.148}$	$0.632_{\pm.025}$	$0.579_{\pm.055}$
$SeHGNN_{KL}$	$0.286_{\pm.018}$	$10.178_{\pm.781}$	$0.267_{\pm.020}$	$2.166_{\pm.143}$	$0.640_{\pm.016}$	$0.600_{\pm.059}$
GLDL	$0.199_{\pm.064}$	**8.887**$_{\pm.838}$	$0.232_{\pm.044}$	**1.89**$_{\pm.17}$	$0.699_{\pm.049}$	$0.409_{\pm.105}$
HINormer	$0.365_{\pm.028}$	$10.563_{\pm.571}$	$0.308_{\pm.029}$	$2.227_{\pm.099}$	$0.575_{\pm.023}$	$0.742_{\pm.102}$
HGDL	**0.168**$_{\pm.019}$	$9.179_{\pm.574}$	**0.217**$_{\pm.017}$	$1.957_{\pm.114}$	**0.710**$_{\pm.020}$	**0.392**$_{\pm.044}$
$HGDL_{\neg transformer}$	$0.199_{\pm.014}$	$9.371_{\pm.679}$	$0.235_{\pm.017}$	$2.004_{\pm.137}$	$0.687_{\pm.021}$	$0.492_{\pm.059}$
$HGDL_{\neg t}$	$0.212_{\pm.023}$	$9.510_{\pm.602}$	$0.240_{\pm.018}$	$2.029_{\pm.110}$	$0.671_{\pm.020}$	$0.462_{\pm.050}$
$HGDL_{ed}$	$0.204_{\pm.026}$	$9.602_{\pm.882}$	$0.239_{\pm.028}$	$2.040_{\pm.162}$	$0.681_{\pm.030}$	$0.574_{\pm.085}$
DBLP						
Model	COD↓	CAD↓	CHD↓	CLD↓	IND↑	KL↓
GCN_{KL}	$0.031_{\pm.004}$	$2.852_{\pm.009}$	$0.091_{\pm.006}$	$1.647_{\pm.002}$	$0.908_{\pm.006}$	$0.114_{\pm.011}$
HAN_{KL}	$0.025_{\pm.002}$	$2.819_{\pm.012}$	$0.071_{\pm.004}$	$1.633_{\pm.007}$	$0.929_{\pm.004}$	$0.082_{\pm.008}$
$SeHGNN_{KL}$	$0.086_{\pm.140}$	$2.887_{\pm.170}$	$0.155_{\pm.208}$	**1.624**$_{\pm.049}$	$0.842_{\pm.214}$	$0.252_{\pm.397}$
GLDL	$0.019_{\pm.001}$	$2.8_{\pm.009}$	**0.056**$_{\pm.002}$	$1.633_{\pm.004}$	$0.943_{\pm.003}$	$0.06_{\pm.003}$
HINormer	$0.053_{\pm.008}$	$2.936_{\pm.013}$	$0.146_{\pm.019}$	$1.669_{\pm.008}$	$0.853_{\pm.019}$	$0.22_{\pm.025}$
HGDL	**0.019**$_{\pm.002}$	**2.796**$_{\pm.014}$	$0.057_{\pm.005}$	$1.633_{\pm.005}$	**0.943**$_{\pm.005}$	**0.057**$_{\pm.011}$
$HGDL_{\neg transformer}$	$0.025_{\pm.002}$	$2.828_{\pm.004}$	$0.074_{\pm.005}$	$1.642_{\pm.001}$	$0.925_{\pm.005}$	$0.090_{\pm.008}$
$HGDL_{\neg t}$	$0.020_{\pm.002}$	$2.808_{\pm.013}$	$0.062_{\pm.005}$	$1.637_{\pm.005}$	$0.937_{\pm.005}$	$0.070_{\pm.011}$
$HGDL_{ed}$	$0.023_{\pm.001}$	$2.819_{\pm.005}$	$0.070_{\pm.003}$	$1.639_{\pm.003}$	$0.929_{\pm.003}$	$0.082_{\pm.006}$

Table 1: Experimental results of HINormer and GLDL on the Drug and DBLP datasets, where HINormer is a recent heterogenous graph learning baseline and GLDL is for LDL in homogenous graphs.

100 epochs (s)	DRUG (894)	URBAN (604)	ACM (5810)	YELP (3001)	DBLP (4057)
GCN_{KL}	2.51	2.77	10.97	**1.8569**	**23**
HAN_{KL}	1.73	0.979	75	12.53	23.63
$SeHGNN_{KL}$	2.0592	1.16	75.25	12.45	23.45
$HGDL_{KL}$	**1.19**	**1.05**	**8.81**	8.75	26.57

Table 2: Runtime results for 100 training epochs. The numbers of target nodes are labeled beside their corresponding dataset names.

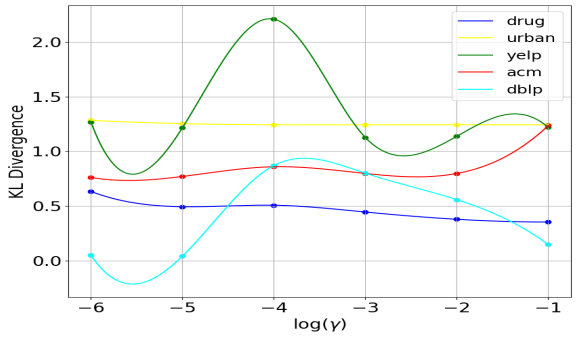

Figure 1: Sensitive analysis of γ, ranging from 0, 1e-5, 1e-4, 1e-3, 1e-2, and 0.1, converted to the values of $log(\gamma)$ as -6, -5, -4, -3, -2, and -1 along the X-axis.

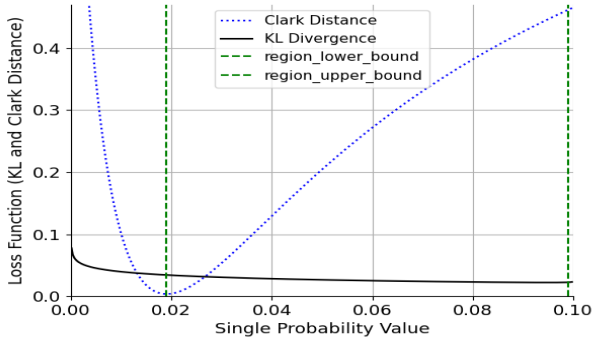

Figure 2: KL and CLD tradeoff function example. The estimated probability distribution is $[x_1, x_2, 0.9]$ and true probability distribution is [0.05,0.05,0.9], with $x_1 + x_2 = 0.1$. Horizontal axis is the x_1 value and vertical axis is the loss for both CLD and KL divergence. Green dashed lines cover the tradeoff region where the CLD loss monotonically increases and KL-divergence decreases.

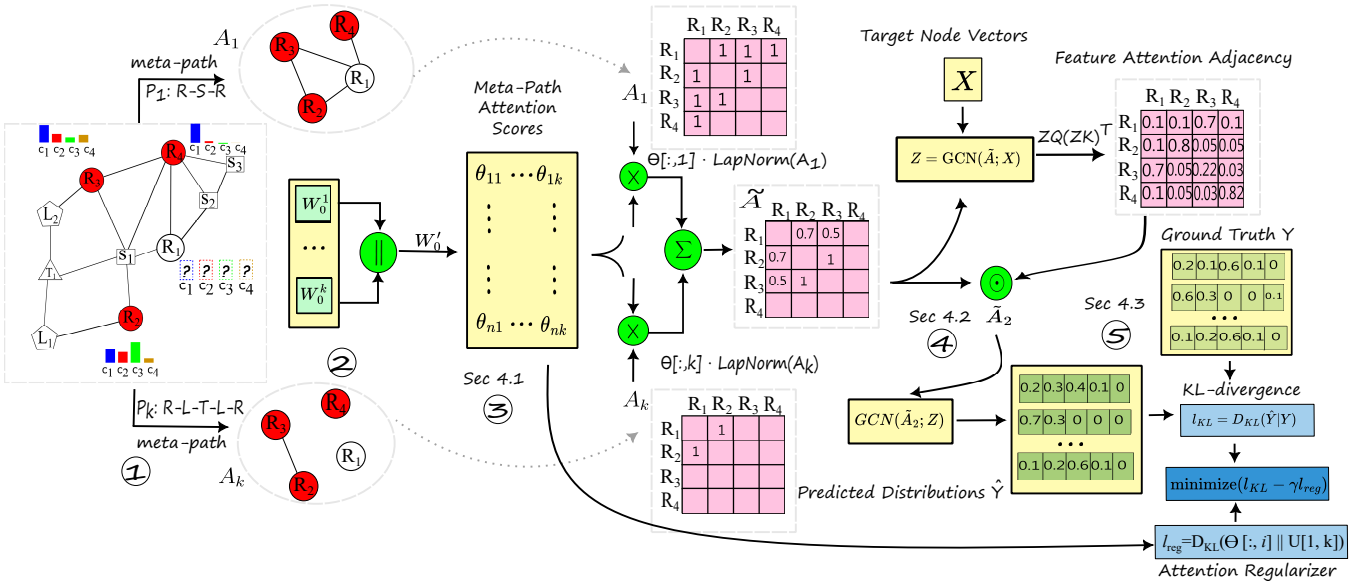

Figure 3: The revised illustration of HGDL framework, which shall replace Figure 2 in the original manuscript.