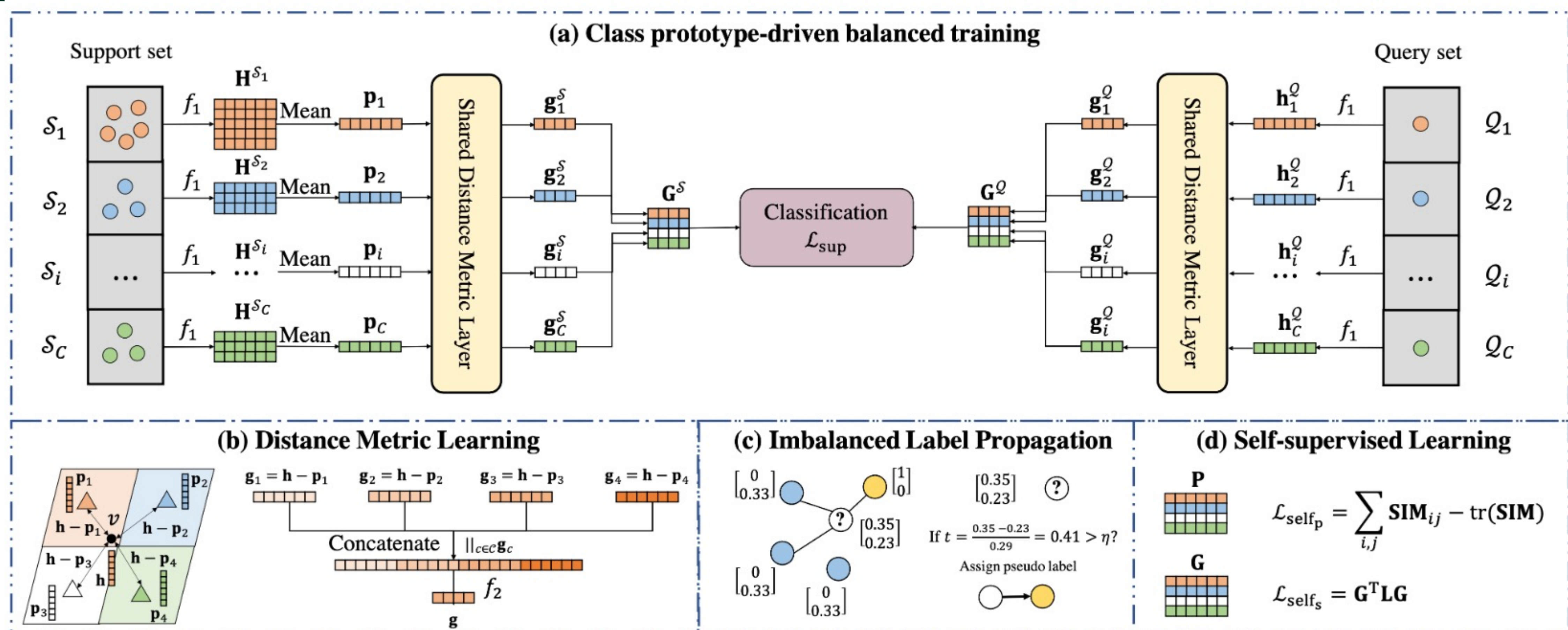


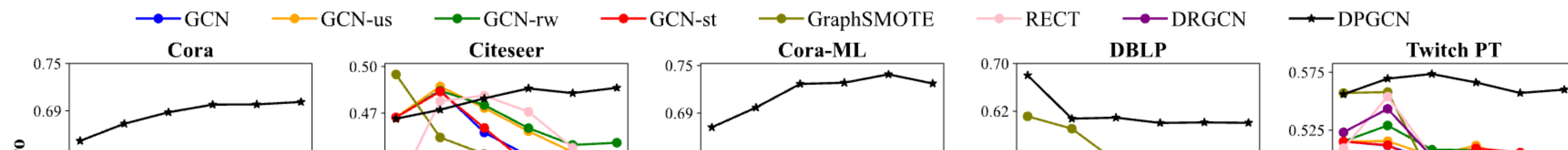
Imbalanced Node Classification and Our Framework



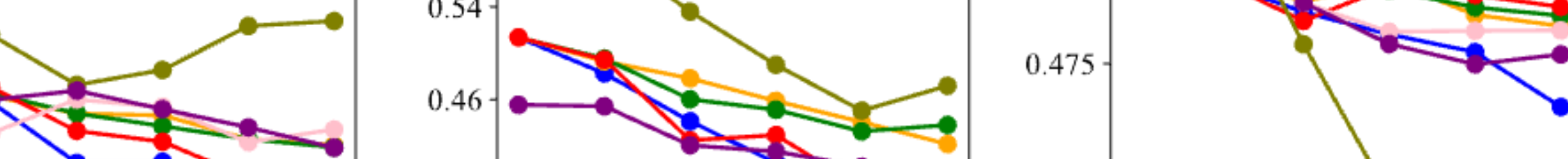
Experimental Verification

Model	Dataset (Homophily Value)											
	Cora (0.81)			Citeseer (0.74)			Pubmed (0.80)			Cora-ML (0.79)		
	F1-macro	F1-weight	F1-micro	F1-macro	F1-weight	F1-micro	F1-macro	F1-weight	F1-micro	F1-macro	F1-weight	F1-micro
GCN	0.5205	0.5195	0.5212	0.3870	0.4169	0.4692	0.5501	0.5569	0.5928	0.5205	0.5195	0.5212
GCN _{us}	0.5631	0.5659	0.5727	0.4503	0.4822	0.5220	0.6272	0.6323	0.6451	0.5656	0.5516	0.5611
GCN _{rw}	0.5609	0.5660	0.5724	0.4457	0.4800	0.5156	0.6169	0.6178	0.6327	0.5609	0.5660	0.5724
GCN _{st}	0.5488	0.5398	0.5519	0.4462	0.4794	0.5127	0.5861	0.5964	0.6186	0.5488	0.5398	0.5519
GraphSMOTE	0.5845	0.6026	0.5820	0.4236	0.4774	0.5020	0.6122	0.5998	0.6110	0.6233	0.6450	0.6130
RECT	0.5234	0.5025	0.5448	0.4002	0.4243	0.4549	0.5713	0.5597	0.6002	0.5530	0.5560	0.6026
DR-GCN	0.5513	0.5362	0.5520	0.3924	0.4414	0.4880	0.5628	0.5730	0.5559	0.5412	0.4716	0.5060
DPGCN	0.7115	0.7029	0.7111	0.4838	0.5180	0.5397	0.7018	0.7176	0.7189	0.7273	0.7278	0.7305

Visualizing the performance of our model under different imbalanced ratio



Ablation Study



Imbalanced Label Propagation

Recent/Future Work

Mitigating Sensitive Leakage
(KDD 22 Poster-143)

Structural Explanation for Bias
(KDD 22 Poster-79)

Mitigating Imbalance
(CIKM 22)

Graph SSL
(Springer 22)

Fairness and Explanation
(Coming soon!)