

TABLE I: precision result using removal features edges implemented in several classification models

Precision based on removal edges features							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 7	Rank 4	Rank 3	Rank 5	Rank 6	Rank 1
Netpro2vecMeigraphs	0.958	0.856	0.859	0.952	0.925	0.906	1
Netpro2vecNDD	0.957	0.859	0.862	0.956	0.941	0.927	1
Netpro2vecTM1	0.974	0.895	0.853	0.953	0.946	0.924	1
Netpro2vecTM2	0.953	0.889	0.763	0.857	0.822	0.813	0.951
Netpro2vecNDD+TM1	0.972	0.867	0.836	0.937	0.940	0.871	1
Netpro2vecNDD+TM1+TM2	0.963	0.871	0.766	0.838	0.826	0.795	0.930
Graph2Vec	0.938	0.839	0.934	0.950	0.929	0.936	0.949
GL2Vec	0.912	0.857	0.947	0.946	0.942	0.932	1
FeatherGraph	0.723	0.669	0.579	0.675	0.638	0.693	0.757

TABLE II: recall result using removal features edges implemented in several classification models

Recall based on removal edges features							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 7	Rank 4	Rank 3	Rank 6	Rank 5	Rank 1
Netpro2vecMeigraphs	0.949	0.869	0.854	0.957	0.919	0.900	1
Netpro2vecNDD	0.952	0.869	0.859	0.952	0.929	0.921	1
Netpro2vecTM1	0.967	0.897	0.847	0.947	0.909	0.919	1
Netpro2vecTM2	0.944	0.882	0.740	0.847	0.809	0.796	0.969
Netpro2vecNDD+TM1	0.967	0.864	0.826	0.941	0.917	0.869	1
Netpro2vecNDD+TM1+TM2	0.957	0.867	0.731	0.827	0.820	0.769	0.933
Graph2Vec	0.924	0.849	0.932	0.944	0.921	0.931	0.969
GL2Vec	0.899	0.875	0.933	0.931	0.931	0.924	1
FeatherGraph	0.706	0.656	0.526	0.656	0.632	0.667	0.689

TABLE III: F1-score result using removal features edges implemented in several classification models

F1-score based on removal edges features							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 7	Rank 5	Rank 3	Rank 4	Rank 6	Rank 1
Netpro2vecMeigraphs	0.949	0.845	0.848	0.957	0.918	0.889	1
Netpro2vecNDD	0.952	0.853	0.854	0.952	0.929	0.921	1
Netpro2vecTM1	0.969	0.887	0.845	0.947	0.936	0.919	1
Netpro2vecTM2	0.944	0.881	0.741	0.846	0.806	0.794	0.975
Netpro2vecNDD+TM1	0.964	0.837	0.819	0.941	0.937	0.861	1
Netpro2vecNDD+TM1+TM2	0.957	0.866	0.729	0.823	0.815	0.763	0.928
Graph2Vec	0.922	0.829	0.927	0.943	0.919	0.927	0.969
GL2Vec	0.892	0.859	0.930	0.928	0.927	0.922	1
FeatherGraph	0.704	0.652	0.503	0.655	0.630	0.666	0.751