

TABLE I: PRECISION RESULT OF SEVERAL MODELS USING NORMALIZED FEATURES

Precision Normalized							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 5	Rank 6	Rank 3	Rank 4	Rank 7	Rank 1
Netpro2vecMetgraphs	0.964	0.905	0.874	0.972	0.951	0.933	0.972
Netpro2vecNDD	0.971	0.899	0.867	0.972	0.939	0.919	0.972
Netpro2vecTM1	0.981	0.948	0.858	0.966	0.912	0.917	1
Netpro2vecTM2	0.967	0.890	0.759	0.863	0.831	0.812	0.918
Netpro2vecNDD+TM1	0.982	0.880	0.829	0.951	0.913	0.873	0.972
Netpro2vecNDD+TM1+TM2	0.975	0.882	0.751	0.854	0.823	0.798	0.955
Graph2Vec	0.922	0.884	0.918	0.945	0.932	0.927	0.972
GL2Vec	0.927	0.909	0.945	0.957	0.938	0.933	1
FeatherGraph	0.704	0.707	0.579	0.712	0.638	0.693	0.740
SF	0.631	0.679	0.678	0.668	0.643	0.725	

TABLE II: RECALL RESULT OF SEVERAL MODELS USING NORMALIZED FEATURES

Recall Normalized							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 5	Rank 6	Rank 3	Rank 4	Rank 7	Rank 1
Netpro2vecMetgraphs	0.963	0.912	0.862	0.967	0.947	0.930	0.969
Netpro2vecNDD	0.969	0.899	0.849	0.967	0.935	0.918	0.969
Netpro2vecTM1	0.977	0.945	0.845	0.962	0.906	0.912	1
Netpro2vecTM2	0.962	0.882	0.738	0.854	0.824	0.796	0.933
Netpro2vecNDD+TM1	0.979	0.889	0.826	0.944	0.908	0.884	0.981
Netpro2vecNDD+TM1+TM2	0.969	0.869	0.730	0.852	0.816	0.778	0.939
Graph2Vec	0.921	0.875	0.919	0.936	0.926	0.919	0.981
GL2Vec	0.921	0.892	0.933	0.936	0.919	0.929	1
FeatherGraph	0.672	0.668	0.526	0.703	0.632	0.667	0.690
SF	0.627	0.652	0.627	0.654	0.637	0.695	

TABLE III: F1 SCORE RESULT OF SEVERAL MODELS USING NORMALIZED FEATURES

F1 Score Normalized							
Classification Models:	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs
Feature Extraction:	Rank 2	Rank 5	Rank 6	Rank 3	Rank 4	Rank 7	Rank 1
Netpro2vecMetgraphs	0.959	0.897	0.857	0.967	0.947	0.929	0.969
Netpro2vecNDD	0.969	0.884	0.842	0.967	0.934	0.916	0.969
Netpro2vecTM1	0.980	0.945	0.839	0.962	0.907	0.912	1
Netpro2vecTM2	0.962	0.881	0.738	0.853	0.821	0.795	0.922
Netpro2vecNDD+TM1	0.979	0.869	0.819	0.944	0.907	0.878	0.976
Netpro2vecNDD+TM1+TM2	0.969	0.877	0.729	0.849	0.816	0.776	0.943
Graph2Vec	0.919	0.864	0.916	0.935	0.926	0.918	0.976
GL2Vec	0.919	0.877	0.932	0.948	0.932	0.929	1
FeatherGraph	0.676	0.666	0.503	0.702	0.630	0.666	0.701
SF	0.621	0.655	0.629	0.644	0.632	0.696	