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

Precision in Normalized of Removal Edges Data Patients							
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
Netpro2vecMetgraphs	0.966	0.897	0.859	**0.967**	0.925	0.906	**1**
Netpro2vecNDD	0.967	0.902	0.862	0.965	0.941	0.927	0.982
Netpro2vecTM1	**0.979**	**0.925**	0.853	0.957	**0.946**	0.924	**1**
Netpro2vecTM2	0.973	0.902	0.763	0.856	0.823	0.813	0.929
Netpro2vecNDD+TM1	0.978	0.869	0.836	0.951	0.940	0.865	0.982
Netpro2vecNDD+TM1 +TM2	0.970	0.875	0.758	0.850	0.826	0.795	0.942
Graph2Vec	0.935	0.879	0.934	0.957	0.929	**0.936**	0.942
GL2Vec	0.936	0.911	**0.947**	0.948	0.942	0.932	0.972
FeatherGraph	0.704	0.707	0.579	0.712	0.636	0.693	0.759

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

Recall in Normalized of Removal Edges Data Patients							
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
Netpro2vecMetgraphs	0.963	0.892	0.854	**0.962**	0.919	0.901	**1**
Netpro2vecNDD	0.965	0.903	0.859	**0.962**	0.929	0.921	0.969
Netpro2vecTM1	**0.977**	**0.918**	0.847	0.952	**0.937**	0.919	**1**
Netpro2vecTM2	0.967	0.892	0.740	0.860	0.809	0.796	0.921
Netpro2vecNDD+TM1	0.974	0.887	0.825	0.944	**0.937**	0.869	0.981
Netpro2vecNDD+TM1 +TM2	0.964	0.872	0.731	0.842	0.820	0.777	0.951
Graph2Vec	0.929	0.876	0.929	0.946	0.921	**0.931**	0.951
GL2Vec	0.929	0.895	**0.933**	0.936	0.931	0.924	0.969
FeatherGraph	0.672	0.668	0.526	0.703	0.621	0.667	0.749

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

F1 in Normalized of Removal Edges Data Patients							
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
Netpro2vecMetgraphs	0.962	0.878	0.848	**0.962**	0.918	0.896	**1**
Netpro2vecNDD	0.967	0.892	0.854	**0.962**	0.929	0.921	0.969
Netpro2vecTM1	**0.977**	**0.915**	0.822	0.952	0.936	0.919	**1**
Netpro2vecTM2	0.967	0.891	0.741	0.859	0.806	0.794	0.917
Netpro2vecNDD+TM1	0.975	0.869	0.819	0.944	**0.937**	0.861	0.976
Netpro2vecNDD+TM1 +TM2	0.952	0.871	0.729	0.838	0.815	0.775	
Graph2Vec	0.928	0.859	0.927	0.945	0.919	**0.927**	0.946
GL2Vec	0.928	0.876	**0.929**	0.935	0.927	0.922	0.969
FeatherGraph	0.676	0.666	0.503	0.702	0.630	0.666	0.724