

**Table 14. Win-tie-loss values for DeMuVGN and other approaches in WPDP.**

Method	AUC			Recall			Brier			PF			F1		
	win	tie	loss	win	tie	loss	win	tie	loss	win	tie	loss	win	tie	loss
DeMuVGN vs DDG-BiGGNN	9	2	0	9	2	0	10	1	0	6	4	1	10	1	0
DeMuVGN vs CDG-BiGGNN	11	0	0	9	2	0	9	2	0	8	3	0	11	0	0
DeMuVGN vs BiGGNN	8	3	0	7	4	0	6	3	2	9	2	0	9	2	0
DeMuVGN vs CGCN	11	0	0	8	3	0	8	3	0	10	1	0	11	0	0
DeMuVGN vs DP-CNN	11	0	0	11	0	0	11	0	0	7	3	1	11	0	0
DeMuVGN vs DBN	11	0	0	11	0	0	10	1	0	6	5	0	11	0	0
DeMuVGN vs LR	8	3	0	8	3	0	9	2	0	9	2	0	9	2	0
DeMuVGN vs NB	8	3	0	10	1	0	10	1	0	7	4	0	11	0	0
DeMuVGN vs RF	8	3	0	9	1	1	8	2	1	6	5	0	9	1	1
DeMuVGN vs SVM	9	2	0	11	0	0	8	3	0	9	2	0	11	0	0
DeMuVGN vs XGBoost	10	1	0	9	2	0	6	3	1	8	3	0	11	0	0

**Table 15. Win-tie-loss values for DeMuVGN and other approaches in CPDP.**

Method	AUC			Recall			Brier			PF			F1		
	win	tie	loss	win	tie	loss	win	tie	loss	win	tie	loss	win	tie	loss
DeMuVGN vs DSSDPPN	15	2	0	12	3	2	12	5	0	13	3	1	13	4	0
DeMuVGN vs CGCN	14	3	0	13	2	2	12	5	0	12	5	0	15	2	0
DeMuVGN vs TCB	13	4	0	8	4	4	11	6	0	7	8	2	12	3	1
DeMuVGN vs MNB	16	0	1	11	3	3	9	8	0	10	7	0	13	2	2
DeMuVGN vs VCB-SVM	16	1	0	11	2	4	9	8	0	14	3	0	11	4	2