

Table 1: Results of CNN-DDI on three similarity measures

Similarity	Accuracy	AUPR	AUC	F1	Precision	Recall
Jaccard	0.8881	0.9571	0.9883	0.8104	0.8205	0.8336
Cosine	0.8860	0.9467	0.9853	0.7501	0.7953	0.7438
Gaussian	0.8921	0.9551	0.9856	0.7976	0.7882	0.8323

Table 2: Results of CNN-DDI using different features

Features	Accuracy	AUPR	AUC	F1	Precision	Recall
T	0.8391	0.9588	0.9839	0.7431	0.7354	0.7760
P	0.8234	0.9489	0.9799	0.7232	0.7491	0.7264
E	0.6415	0.8021	0.9134	0.4151	0.4936	0.3878
C	0.9088	0.9814	0.9923	0.7937	0.8126	0.8020
T+P	0.8242	0.9529	0.9804	0.6915	0.7203	0.6843
T+E	0.8489	0.9572	0.9822	0.7695	0.7900	0.7752
T+C	0.8992	0.9663	0.9894	0.8047	0.8160	0.8125
P+E	0.8708	0.9594	0.9853	0.7245	0.7612	0.7073
P+C	0.8936	0.9566	0.9872	0.7715	0.7891	0.7767
E+C	0.8791	0.9625	0.9884	0.7873	0.8454	0.7586
T+P+E	0.8476	0.9501	0.9817	0.6682	0.7845	0.6298
T+P+C	0.8882	0.9496	0.9861	0.7530	0.7854	0.7441
T+E+C	0.9054	0.9555	0.9887	0.7890	0.8405	0.7659
P+E+C	0.8944	0.9586	0.9874	0.7734	0.7724	0.8007
T+P+E+C	0.8881	0.9571	0.9883	0.8104	0.8205	0.8336

Table 3: Comparison with models trained without "residual block"

Algorithm	Accuracy	AUPR	AUC	F1	Precision	Recall
CNN-DDI-no-residual	0.8927	0.9662	0.9887	0.7494	0.7886	0.7322
CNN-DDI	0.8881	0.9571	0.9883	0.8104	0.8205	0.8336

Table 4: Results of CNN-DDI and other state-of-art models

Algorithm	Accuracy	AUPR	AUC	F1	Precision	Recall
CNN-DDI	0.8881	0.9571	0.9883	0.8104	0.8205	0.8336
GBDT	0.8327	0.8828	0.9970	0.6730	0.7817	0.6133
RF	0.7837	0.8446	0.9959	0.5167	0.6973	0.4444
KNN	0.7581	0.8166	0.9881	0.6250	0.7562	0.5596
LR	0.7558	0.8087	0.9950	0.3894	0.5617	0.3331

Table 5: Comparison of our model with paper's CNN-DDI and DDIMDL model

Algorithm	Accuracy	AUPR	AUC	F1	Precision	Recall
Our CNN-DDI	0.8881	0.9571	0.9883	0.8104	0.8205	0.8336
paper's CNN-DDI	0.8871	0.9251	0.9980	0.7496	0.8556	0.7220
DDIMDL	0.8852	0.9230	0.9976	0.7559	0.8513	0.7204