

Table 2: Rumor detection results (R: Rumor; N: Non-rumor)

(a) Twitter dataset

Method	Class	Accuracy	Precision	Recall	F_1
DT-Rank	R	0.644	0.638	0.675	0.656
	N		0.652	0.613	0.632
SVM-RBF	R	0.722	0.856	0.526	0.651
	N		0.663	0.914	0.769
DTC	R	0.731	0.724	0.757	0.740
	N		0.739	0.704	0.721
RFC	R	0.772	0.717	0.908	0.801
	N		0.870	0.634	0.734
SVM-TS	R	0.808	0.735	0.963	0.834
	N		0.947	0.652	0.772
tanh-RNN	R	0.827	0.847	0.833	0.840
	N		0.804	0.820	0.812
LSTM-1	R	0.855	0.855	0.883	0.869
	N		0.854	0.820	0.837
GRU-1	R	0.864	0.857	0.900	0.878
	N		0.872	0.820	0.845
GRU-2	R	0.881	0.851	0.950	0.898
	N		0.930	0.800	0.860

(b) Weibo dataset

Method	Class	Accuracy	Precision	Recall	F_1
DT-Rank	R	0.732	0.738	0.715	0.726
	N		0.726	0.749	0.737
SVM-RBF	R	0.818	0.822	0.812	0.817
	N		0.815	0.824	0.819
DTC	R	0.831	0.847	0.815	0.831
	N		0.815	0.847	0.830
RFC	R	0.849	0.786	0.959	0.864
	N		0.947	0.739	0.830
SVM-TS	R	0.857	0.839	0.885	0.861
	N		0.878	0.830	0.857
tanh-RNN	R	0.873	0.816	0.964	0.884
	N		0.956	0.782	0.861
LSTM-1	R	0.896	0.846	0.968	0.913
	N		0.953	0.858	0.903
GRU-1	R	0.908	0.871	0.958	0.913
	N		0.953	0.858	0.903
GRU-2	R	0.910	0.876	0.956	0.914
	N		0.952	0.864	0.906