## Supplementary Materials

June 18, 2021

This file gives extra details of experiments in the paper.

## 1 Data sets

We crawled 1742 papers from Bing, DBLP and IEEE according to the keywords "Xindong Wu", "Fei Jie" and "Yanxiang Huang'. Then the paper was labeled manually. To avoid imbalance in examples, we sampled in negative examples and than split the extended examples into training set and test set. The ratio between positive and negative examples is 1:4. The Tab. 1 gives some statistics about datasets.

Table 1:	ble 1: Some statistics of datasets.					
Dataset	Size	Pos.	Attributes			
All	3212	586	5			
$\operatorname{Train}$	2248	405	5			
Test	964	181	5			

where "Pos." means the number of positive examples.

## 2 The experiments of different serialization strategies

Table 2: The parameters in the experiments.

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Epoch	Batch Size	Learning Rate	-
10	16	3e-5	-

Table 3: The experimental results of different models.

Model	$F_1$	QPS
SVM	0.9547	5379.03
Ditto	0.9972	16.45
SVM+Ditto([0.3, 0.7])	0.9547	663.95
SVM+Ditto([0.2, 0.8])	0.9730	442.37
SVM+Ditto([0.1, 0.9])	0.9837	269.80
SVM + Ditto([0.05, 0.95])	0.9864	162.38
SVM+Ditto([0.3, 1.0])	0.9944	79.55
SVM+Ditto([0.4, 1.0])	0.9862	82.43
SVM+Ditto([0.5, 1.0])	0.9835	84.63

## 3 The experiments with different models

Here are some experimental results of the two-phase method<sup>1</sup>, where the range following the model name is the confidence interval from SVM classification results. We can see that [0.3, 1] is the best setting for the confidence interval.

 $<sup>^1\</sup>mathrm{In}$  the submitted paper, the method is also denoted by "SVM+Bert" or "SVM+Ditto"