**Table S2** - Hyper-parameters of IPMiner in comparison.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Dropout ratio | Batch size | The momentum of the SGD optimizer | Epochs |
| IPMinera | 0.5 | 100 | 0.9 | 100 |

aHyper-parameters of IPMiner on RPI2241, RPI369, NPInter10412, NPInter10412\_20%, NPInter10412\_40%, NPInter10412\_60%, NPInter10412\_80%, and RPI7317 datasets are the same.