

# 1. News dataset

## 2. Representation model

### 3. $\xi$ -NN matrix

	1	2	3	4	5
1	0	1	1	0	0
2	1	0	0	0	1
3	0	0	0	1	1
4	0	0	1	0	1
5	0	1	1	0	0

### 4. Katz index

	1	2	3	4	5
1	0.0004	0.0200	0.0200	0.0004	0.0008
2	0.0200	0.0008	0.0008	0.0000	0.0200
3	0.0000	0.0004	0.0008	0.0200	0.0204
4	0.0000	0.0004	0.0204	0.0004	0.0204
5	0.0004	0.0200	0.0200	0.0004	0.0008

## 7. Text features extraction

### 6. Label $\xi$ -NN news network

### 5. Set extraction



### 9. Label propagation

### 8. Add representative features in the $\xi$ -nn network

