The Results of Emotion Cause Analysis (ECA) Task in NTCIR-13

1. Evaluation Metrics

   This task aims to evaluate the techniques for detecting the clause which contains emotion cause. It can be treated as a clause-level binary text classification problem. The clauses will be classified as containing emotion cause or not. The metrics is based on the standard text classification metrics:

$$Precision_{clause} = \frac{\#correct\ cause\ relevant\ clauses}{\#detected\ cause\ relevant\ clauses}$$

$$Recall_{clause} = \frac{\#correct\ cause\ relevant\ clauses}{\#annotated\ cause\ relevant\ clauses}$$

$$F - measure_{clause} = \frac{2 * Precision_{clause} * Recall_{clause}}{Precision_{clause} + Recall_{clause}}$$

   Here, we set lenient and strict evaluations, respectively. For lenient evaluation, the clauses containing either direct cause or elaborated cause are regarded as cause clauses. As for the strict evaluation, only the clauses containing elaborated cause are regarded as cause clauses.

2. Submitted Running Results

   Three teams submitted valid running results for ECA task. The details of these teams are given in Table 1.

Table 1. Team Information

No.	Team ID
1	WUST
2	GDUFS
3	NEUL

3. Results of ECA Task

   The evaluation results for ECA task is given in Table 2.

Table 2. Performances of the Running Results

Team No.	P	R	F
1	0.6930	0.6399	0.6654
2	0.6711	0.6417	0.6561
3	0.4463	0.6984	0.5445

Please contact the task organizer if your submitted results is not listed in the Table before Aug. 15, 2017.