

| Phase | Exam   | Run1       | Run2      | Run3      |
|-------|--|------------|-----------|-----------|
| 1     | National Center Test (1999)                    | 43         | <u>46</u> | 36        |
| 2     | Benesse mock exam<br>(2015 Jun/All/out of 175) | <u>121</u> | 121       | 118       |
| 3     | National Center Test (2011)                    | 65         | 65        | <u>68</u> |
| 3     | Benesse mock exam<br>(2014 Sep/All/out of 125) | <u>77</u>  | 76        | 76        |

÷ Convert to

Factoid Score

Aggregate

Answer

PMI Score

Rank Score

Abstr

Tree Mate

|     | noice pred <u>establish</u><br>bj  |
|-----|--|
|     | wwedge pred_settle   |
| 122 |  |
|     | m <u>Score</u><br>'e define SimScore(Tree Similarity Score) as below. Here, <b>T</b> <sub>h</sub> is the   |
| 1   | noice sentence and $T_t$ is the sentence in knowledge.   |
|     | $f_{T}(T_{h}, T_{t}) = f_{m}\left(T_{h}^{pred}, T_{t}^{pred}\right) * \max_{r' \in R'} f_{m}\left(T_{h}^{r'}, T_{t}^{r'}\right) * \frac{1}{ R } \sum_{e \in \mathcal{P}} f_{m}(T_{h}^{r}, T_{t}^{r})$  |
|     | $f_1$ is set of role <i>r</i> 's words, $f_m(A, B)$ is a function which returns 1 if or<br>word in A matches any of words in B.<br>'= { <i>sbj</i> , <i>obf</i> }, <i>R</i> = { <i>sbj</i> , <i>obf</i> }, <i>time</i> , <i>loc</i> , <i>loc</i> - <i>to</i> }   |
| 1   | MScore   |
| 1   | e define WMScore (Word Match Score) as below.  |
|     | $f_W(T_h, T_t) = Boost(T_h, T_t) * \frac{1}{ W_h } \sum_{w_h \in W_h} \max_{w_t \in W_t} f_w(w_h, w_t)$  |
|     | ere, $W_h$ is words set in $T_h$ , $f_w(w_h, w_t)$ is a function which returns<br>0 if $w_h$ matches $w_t$ , $Boost(T_h, T_t)$ is a function which returns 2.0<br>mScore exceeds 0.5, otherwise 1.0. This score considers not only<br>atch rate of words, but also SimScore.   |
| 1   | EMScore<br>e define WEMScore (Word Exclude Match Score) as below.  |
|     | EMScore<br>e define WEMScore (Word Exclude Match Score) as below.<br>$f_{-W}(T_h, T_t) = \max_{w'_h \in W'_h} \max_{w'_t \in W'_t} f_e(w'_h, w'_t)$<br>ere, $W'_h$ is a word which does not match any of words in $T_t$ ,  |
|     | $\begin{array}{l} \hline \textbf{EMScore} \\ \textbf{e} \mbox{ define WEMScore (Word Exclude Match Score) as below.} \\ f_{-W}(T_h,T_t) = \max_{w_t' \in W_t, w_t' \in W_t'} f_e(w_h',w_t') \end{array}$   |
|     | EMScore<br>e define WEMScore (Word Exclude Match Score) as below.<br>$f_{-W}(T_h, T_t) = \max_{w'_h \in W'_h w_t \in W'_t} f_e(w'_h, w'_t)$ ere, $W'_h$ is a word which does not acth any of words in $T_t$ ,<br>$(w'_h, w'_t)$ is a function which returns 1.0 if $w'_h$ holds exclusive  |
|     | EMScore   e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \underset{w'_h \in W'_h w'_f \in W'_h}{max} f_e(w'_h, w'_t)$ ere, $W'_h$ is a word which does not match any of words in $T_t$ . $(w'_h, w'_t)$ is a function which returns 1.0 if $w'_h$ holds exclusive lation against $w'_t$ . We detect wrong word.   We judge True, False by the WMScore and  |
|     | EMScore e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \underset{w_h \in W_h^*, w_t \in W_t^*}{max} f_e(w_h^*, w_t^*)$ ere, $W_h^*$ is a word which does not match any of words in $T_t$ . $(w_h^*, w_t^*)$ is a function which returns 1.0 if $w_h^*$ holds exclusive lation against $w_t^*$ . We detect wrong word.   We judge True, False by the WMScore and WEMScore.  |
|     | EMScore   e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \max_{w'_h \in W'_h w'_i \in W'_h} f_e(w'_h, w'_t)$ ere, $W'_h$ is a word which does not match any of words in $T_t$ . $(w'_h, w'_t)$ is a function which returns 1.0 if $w'_h$ holds exclusive lation against $w'_t$ . We detect wrong word.   We judge True, False by the WMScore and WEMScore.   Scussion/Error Analysis   |
|     | EMScore e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \underset{w_h \in W_h^*, w_t \in W_t^*}{max} f_e(w_h^*, w_t^*)$ ere, $W_h^*$ is a word which does not match any of words in $T_t$ . $(w_h^*, w_t^*)$ is a function which returns 1.0 if $w_h^*$ holds exclusive lation against $w_t^*$ . We detect wrong word.   We judge True, False by the WMScore and WEMScore.   scussion/Error Analysis   use of error   |
|     | EMScore   e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \underset{w_h \in w_h^*, w_t^* \in w_t^*}{m_h^*, w_t^* \in w_t^*} f_e(w_h^*, w_t^*)$ ere, $W_h^*$ is a word which does not match any of words in $T_t$ . $(w_h^*, w_t^*)$ is a function which returns 1.0 if $w_h^*$ holds exclusive lation against $w_t^*$ . We detect wrong word.   We judge True, False by the WMScore and WEMScore.   Scussion/Error Analysis   use of error Main causes   o frequent NE. |
|     | EMScore e define WEMScore (Word Exclude Match Score) as below. $f_{-W}(T_h, T_t) = \underset{w_h \in W_h, w_t \in W_t}{max} f_e(w_h, w_t')$ ere, $W_h'$ is a word which does not match any of words in $T_t$ . $(w_h, w_t')$ is a function which returns 1.0 if $w_h'$ holds exclusive lation against $w_t$ . We detect wrong word.   We judge True, False by the WMScore and WEMScore.   Scussion/Error Analysis   use of error Main causes   o frequent NE.   It to match synonym.               |

Fail to recognize replacement of sbj and obj. Fail to extract time expression.