

a) All argument pairs, generated from all  $T$  answers to a particular question

Pair id	$arg_{left}$	$arg_{right}$	$label$
...	...	...	...
$p_{29,6}$	...	...	...
$p_{29,7}$	...	...	...
$*p_{30,1}$	$e_{30}$	$e_7$	$arg_{right}$
$p_{30,2}$	$e_7$	$e_4$	$arg_{left}$
$p_{30,3}$	$e_{25}$	$e_7$	$arg_{right}$
$p_{30,4}$	$e_7$	$e_1$	$arg_{left}$
$p_{30,5}$	$e_4$	$e_7$	$arg_{right}$
$p_{30,6}$	$e_7$	$e_{11}$	$arg_{left}$
$p_{30,7}$	$e_{29}$	$e_7$	$arg_{right}$
$p_{31,1}$	$e_{31}$	...	...
...	...	...	...
$p_{T,7}$	...	...	...

Example of how 7 argument pairs are generated from one TMPI answer observation

Learn to Rank



b) Ranking  $\sigma(r)$  of all arguments with rank  $r_i$   $i \in [0, T]$

Explanation	Rank Score
...	...
$e_4$	2.17
$e_7$	0.25
$e_{25}$	-0.3
$e_3$	-1
...	...

Use  $\sigma(r)$  to predict winning argument in each pair

