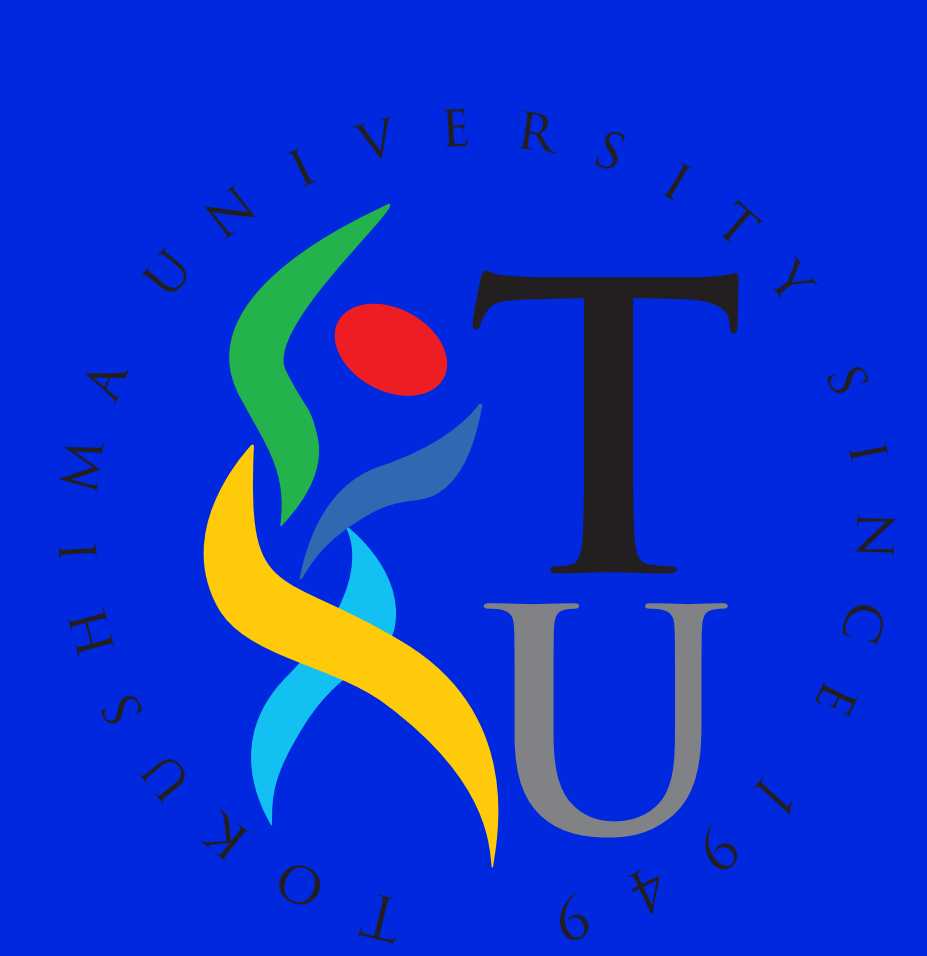


AITOK at the NTCIR-14 OpenLiveQ-2

Hiroki Tanioka
Tokushima University



Good Morning!
I am Hiroki Tanioka.

I am here because I got a notice from **OpenLiveQ-2**.

You can call me just "Hiroki".

1. offline Test

Why climb a mountain?
Because there is a mountain.

2. online Test

To the forest...



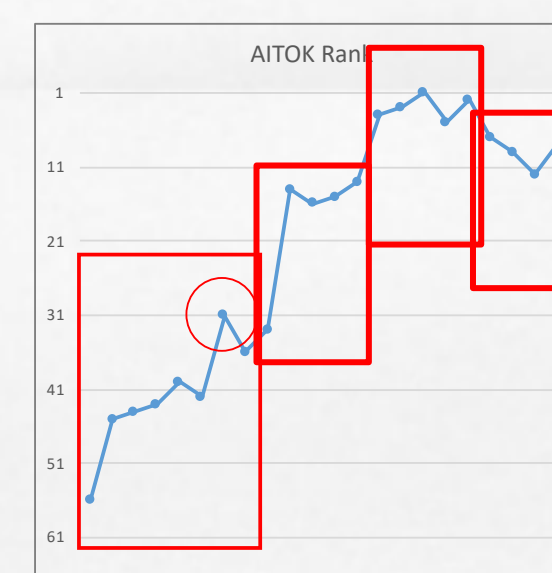
Questions are commonly expressed so as to elicit information and to require resolution or discussion from users.

But, the readers are not the same.

Where is my blue bird? (Q-score)

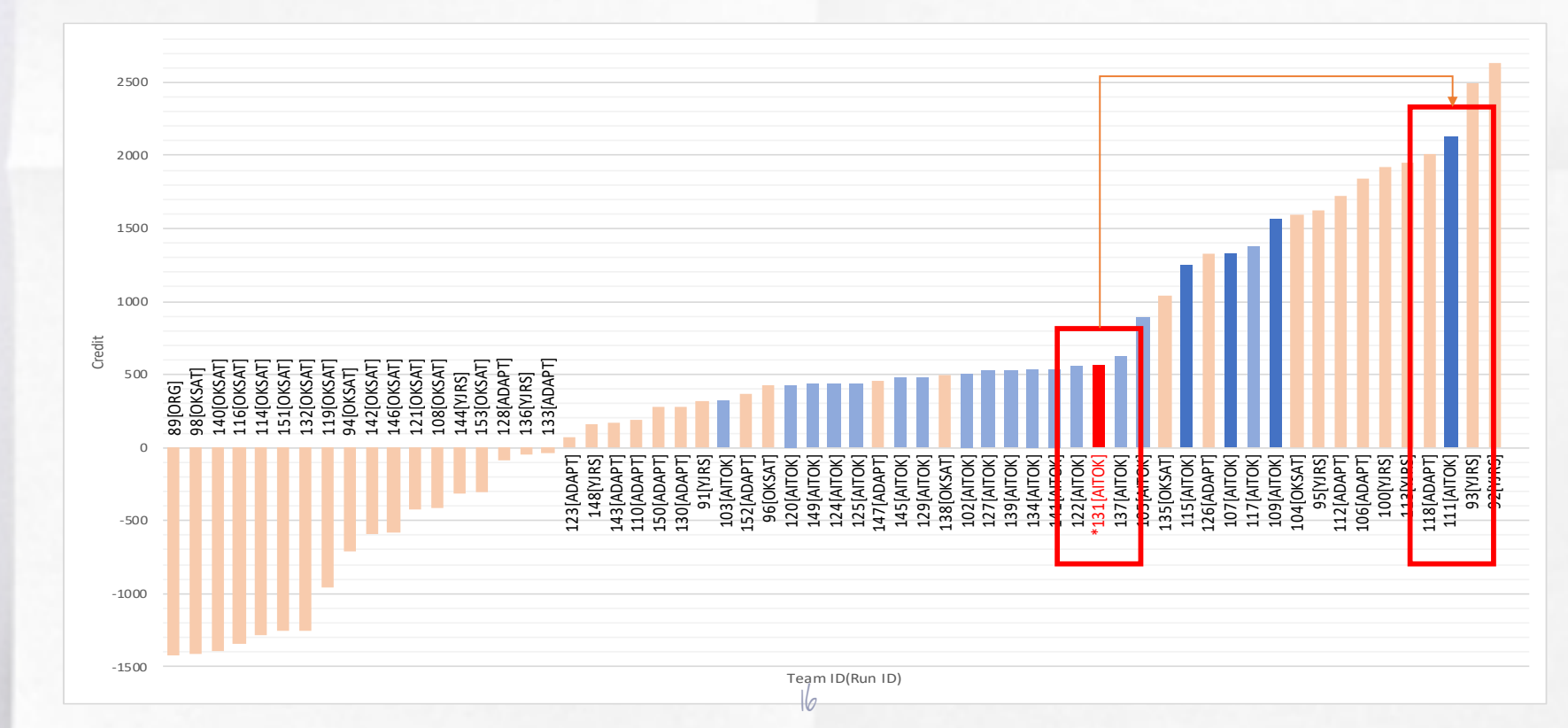
In the offline test, we continued to submit a run a day from the end of August.

Date	Q-measure	Rank	Desc
8/24	0.28134	58	TF-IDF result is only for uploading text from AITOK
8/25	0.39724	45	1 gram TF-IDF with click through rate with cutoff
8/26	0.38802	48	1 gram TF-IDF with click through rate with cutoff
8/27	0.40479	42	1 gram TF-IDF with click through rate with cutoff
8/28	0.42008	40	2 gram TF-IDF with click through rate with cutoff without rank
8/29	0.41786	42	2 gram TF-IDF with click through rate with cutoff without rank
8/30	0.43391	31	2 gram TF-IDF with click through rate with cutoff and view without rank
8/31	0.45276	22	2 gram TF-IDF with click and view with cutoff without rank
9/1	0.45291	21	1 view count
9/2	0.45161	24	1 view count
9/3	0.45119	24	16 click through and view count
9/4	0.45147	23	2 view count sorted with click, updated, answers, order, rank and cutoff
9/5	0.45193	23	13 view count sorted with answers, cutoff, click, updated, order and rank
9/6	0.45189	24	4 view count sorted with answers, a TF-IDF weighted by query
9/7	0.45189	24	3 view count + answers x 2 gram TF-IDF weighted by query
9/8	0.50132	13	3 view count + answers x snippet 2 gram TF-IDF weighted by query
9/9	0.44848	16	2 view count + answers x snippet 2 gram TF-IDF weighted by query
9/10	0.50028	12	2 view count + answers x snippet 2 gram TF-IDF double-weighted by norm query
9/11	0.49883	13	2 view count + answers x snippet word2vec double-weighted by norm query
9/12	0.49427	14	2 view count + answers x snippet word2vec double-weighted by norm query v2
9/13	0.49412	14	2 view count + answers x snippet L1 word2vec double-weighted by norm query
9/14	0.49449	14	2 view count + answers x snippet word2vec double-weighted by norm query



online Test Result (top60 credit)

ID131 is overtaken by ID111.

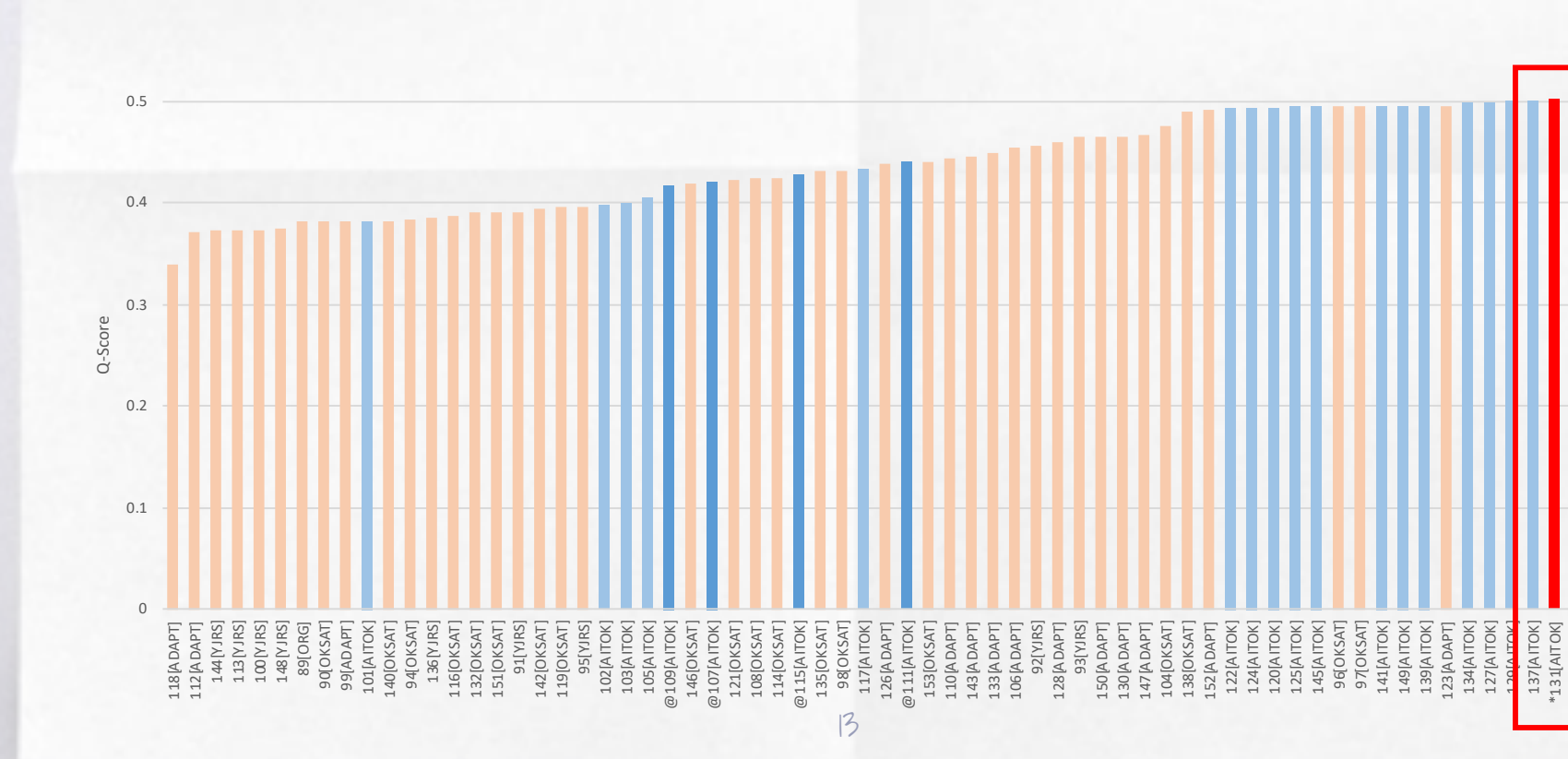


What is catchy question?

To find out the statistics of **catchy** in QA systems, participated in **OpenLiveQ-2**.

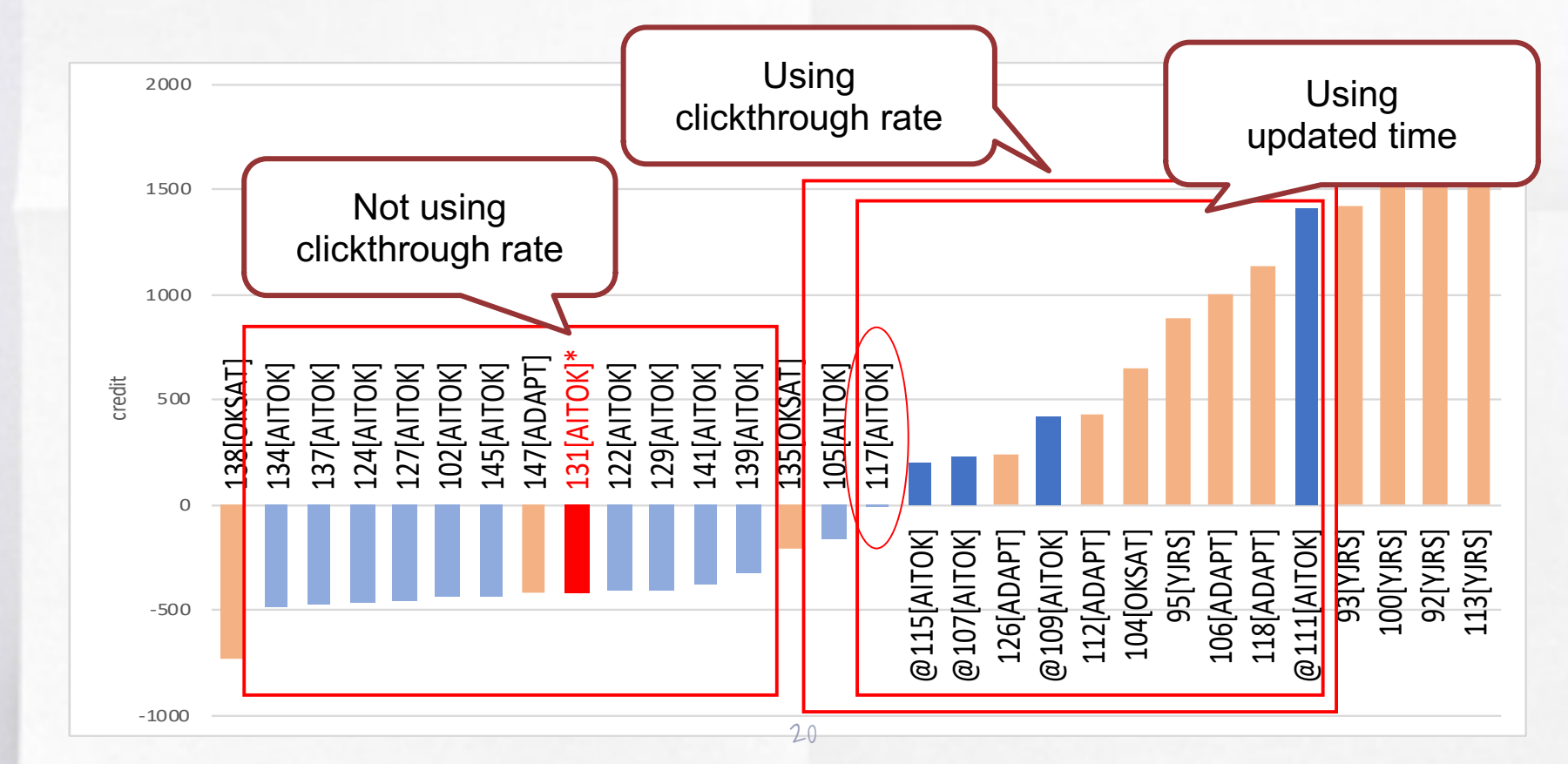
offline Test Result (Q-measure, nDGC, ERR)

We won the first place in almost all scores.



To the forest again... (top30 credit)

What is ID111?



Let's review some available information

Questions Query ID, rank of the question, n search result, title of question, snippet, body of the question	Status Status of the question	Updated time Last update time of the question
Answers Number of the answers for the question, body of the best answer of the question	Views Page view of the question	Clickthrough most frequent rank of the question, Clickthrough rate



My blue bird is here!

My blue bird, **Catchy** is hiding in the view count and TF-IDF :

- Views: the number of view, Page view of the question
- Questions: body and snippet with TF-IDF

Besides,

- Status: unconfirmed
- Updated time: unconfirmed
- Answers: a bit affected
- Clickthrough: a bit affected

Summary

Offline test results were incredibly good:

- TF-IDF guesses intention of users.
- View count represents reputation.

Online test result were unexpected:

- Clickthrough are effective for live users.
- Updated time are also effective.

Want is Catchy?

Reputation & Freshness