

Overview of NTCIR-9 1CLICK

Click the Search Button and Be Happy

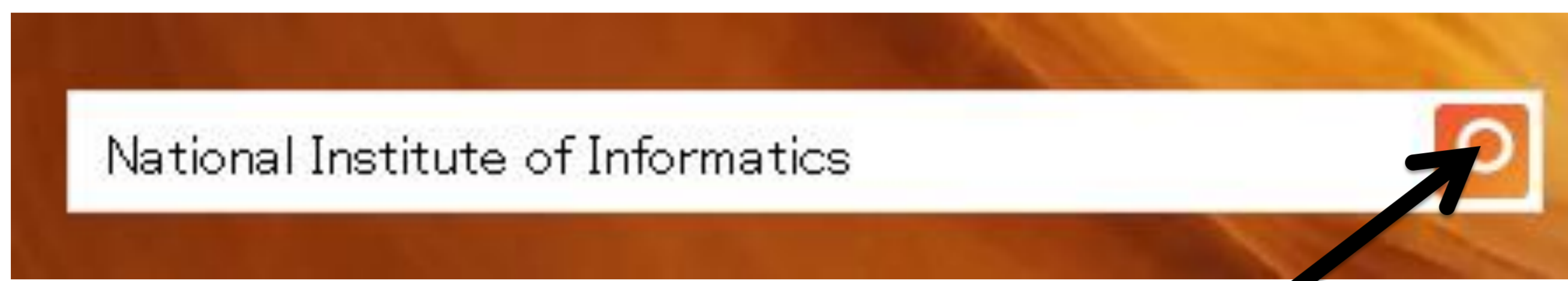
Official page:

<http://research.microsoft.com/en-us/people/tesakai/1click.aspx>

Tetsuya Sakai, Young-In Song (MSRA, China),

Makoto Kato (Kyoto University, Japan)

Task Overview:



**Click the search button
and get all desired information**

Free the user of the burden of scanning a ranked list of URLs, visiting multiple URLs and reading a lot of irrelevant material.

Presents important nuggets first

2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo, 101-8430
Tel: +81-3-4212-2000 (Exchange)

By Train (Subway)
Tokyo Metro Hanzomon Line / Toei Mita Line / Toei Shinjuku Line "JIMBOCHO" Exit A8, A9, Toyko
Metro Tozai Line "TAKEBASHI" Exit 1b 3-5 minutes walk from the stations

Minimize the amount of text

Queries: 60 queries; 4 query types based on SIGIR'09 Good Abandonment paper

Li, Huffman, Tokuda, Good Abandonment in Mobile and PC Internet Search, ACM SIGIR 2009

Types	CELEBRITY	LOCATION	DEFINITION	QA
Query Examples	Mao Asada	Kanazawa Univ.	Kalashnikov	Where in Japan can I see a panda?
Required Info.	date of birth, profession, etc.	Contact info., address, opening hours, etc.	Definition	Answer
Nugget Examples	[Sep 25, 1990], [figure skater]	[xxx@kanazawa-u.ac.jp], [+81-76-264-511s1]	[Small arms designer], [name of a gun]	[Oji Zoo]

Evaluation: manually identified nuggets within each result, and used *S-measure*

Sakai, Kato, Song: Click the Search Button and Be Happy: Evaluating Direct and Immediate Information Access, ACM CIKM 2011

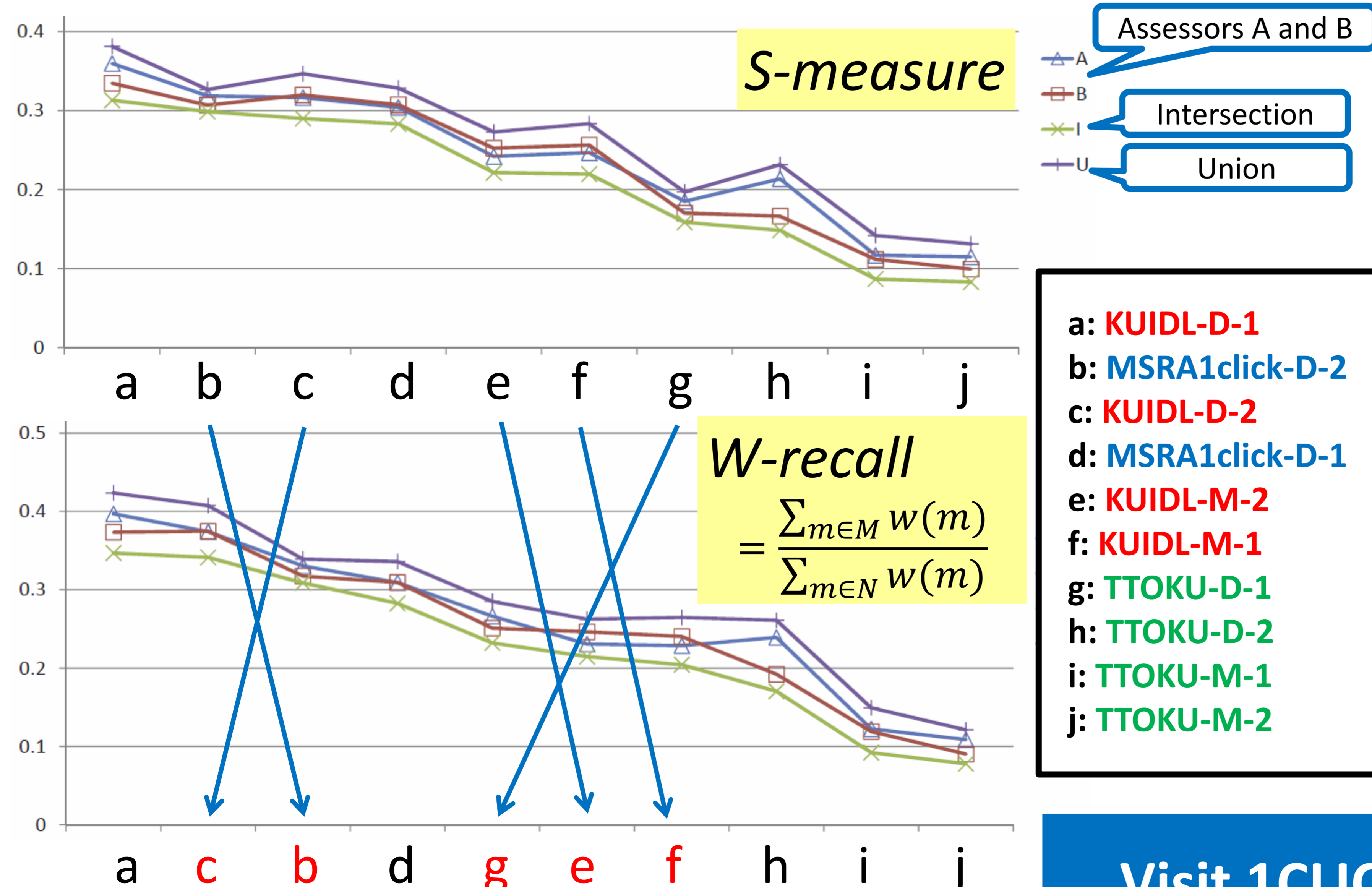
Search $w(m) = 2$ a Japan $w(m) = 1$ water $w(m) = 3$ $w(m) = 1$
Coach $w(m) = 1$ Sato $w(m) = 3$ $w(m) = 2$ $w(m) = 3$

S-measure discounts nugget weight $w(m)$ based on offsets (i.e. "important nuggets first")

$$S\text{-measure} = \frac{\sum_{m \in M} w(m) \max(0, L - \text{offset}(m))}{\sum_{n \in N} w(n) \max(0, L - \text{offset}^*(v(n)))}$$

Normalization

Results: Three teams participated in the 1CLICK task with different approaches: MSRA (Passage retrieval), Kyoto U. (IE), and Tokyo Institute of Tech (Summarization)



- a: KUIDL-D-1
- b: MSRA1click-D-2
- c: KUIDL-D-2
- d: MSRA1click-D-1
- e: KUIDL-M-2
- f: KUIDL-M-1
- g: TTOKU-D-1
- h: TTOKU-D-2
- i: TTOKU-M-1
- j: TTOKU-M-2

1CLICK evaluation framework is **feasible**
Average time to handle one result: 151 secs

1CLICK evaluation framework is **useful**
Unlike previous nugget-based methods, it penalizes systems like this:

Relevant parts (addresses etc.) at the very end!

詳しい地図はこちらへ。中央図書館への道順・地図。館
戸市ホームページのご利用案内プライバシーポリシー
行事調べ物ガイド新聞・雑誌所蔵一覧神戸ふるさと文庫
立図書館報)意見募集(パブリックコメント)図書館協議会
た・先生がたへえ小箱。ページの内容についてメールで
回答。神戸市トップページへページの先頭へ。ページの作成責任者
神戸市総務課長小林史明です。市政やくらし、イベ
ント情報などのお問い合わせは、神戸市総合コールセンターまで。〒650-0017神戸市中央区楠町7丁目2-1中央体育
館・文化ホール山側/大倉山公園内 Tel:078-371-3351 Fax:078-371-5046 交通地下鉄大倉山駅北200m 高速神戸駅北
500m JR神戸駅北800m。毎週月曜(祝日・休日の場合は開館、直後の祝日・休日でない日を休館)。

1CLICK@NTCIR-10 (?)
• Japanese, Korean, English

Visit 1CLICK Participants' Posters for the Details