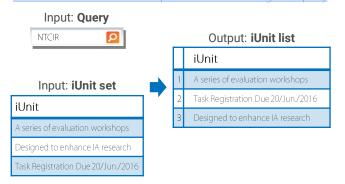
NTCIR-12 MobileClick-2 Task

Makoto P. Kato (Kyoto U.), Tetsuya Sakai (Waseda U.), Takehiro Yamamoto (Kyoto U.), Virgil Pavlu (Northeastern U.), Hajime Morita (Kyoto U.), and Sumio Fujita (Yahoo Japan Corporation)

MobileClick-2 aims to provide direct and immediate mobile information access by automatically generating a concise two-layered summary for a given query

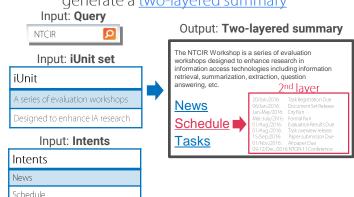
iUnit Ranking Subtask

Given a query and a set of iUnits, rank them based on their estimated importance Note: iUnits are information pieces relevant to a given query



iUnit Summarization Subtask

Given a query, a set of iUnits, and a set of intents, generate a two-layered summary



Dataset

Queries: Prepared queries for four categories (CELEBRITY, LOCAL, DEFINITION, and QA)

Documents: Download top 500 search results from a commercial search engine for each query

iUnits: Manually extracted substrings of the documents as iUnits **Intents:** Manually cluster iUnits and extracted each cluster as an intent

Evaluation

iUnit importance: Two assessor manually evaluated each iUnit in terms of a particular intent at a five-point scale. Importance of iUnit u in terms of i: $g_i(u)$.

Intent probability: Ten users voted for one or more intents in which they were interested. Probability of intent i given query q: P(i|q)

Global importance: Expected iUnit importance over intents. $G(u) = \sum_i P(i|q)g_i(u)$.

iUnit ranking evaluation: Ranked lists of iUnits are evaluated in the same way as ad-hoc retrieval evaluation, that is, Q-measure and nDCG with the global importance.

iUnit summarization evaluation: Expected quality of reading paths (trailtexts) of users with different intents

