

NTCIR16-Lifelog4

Kickoff

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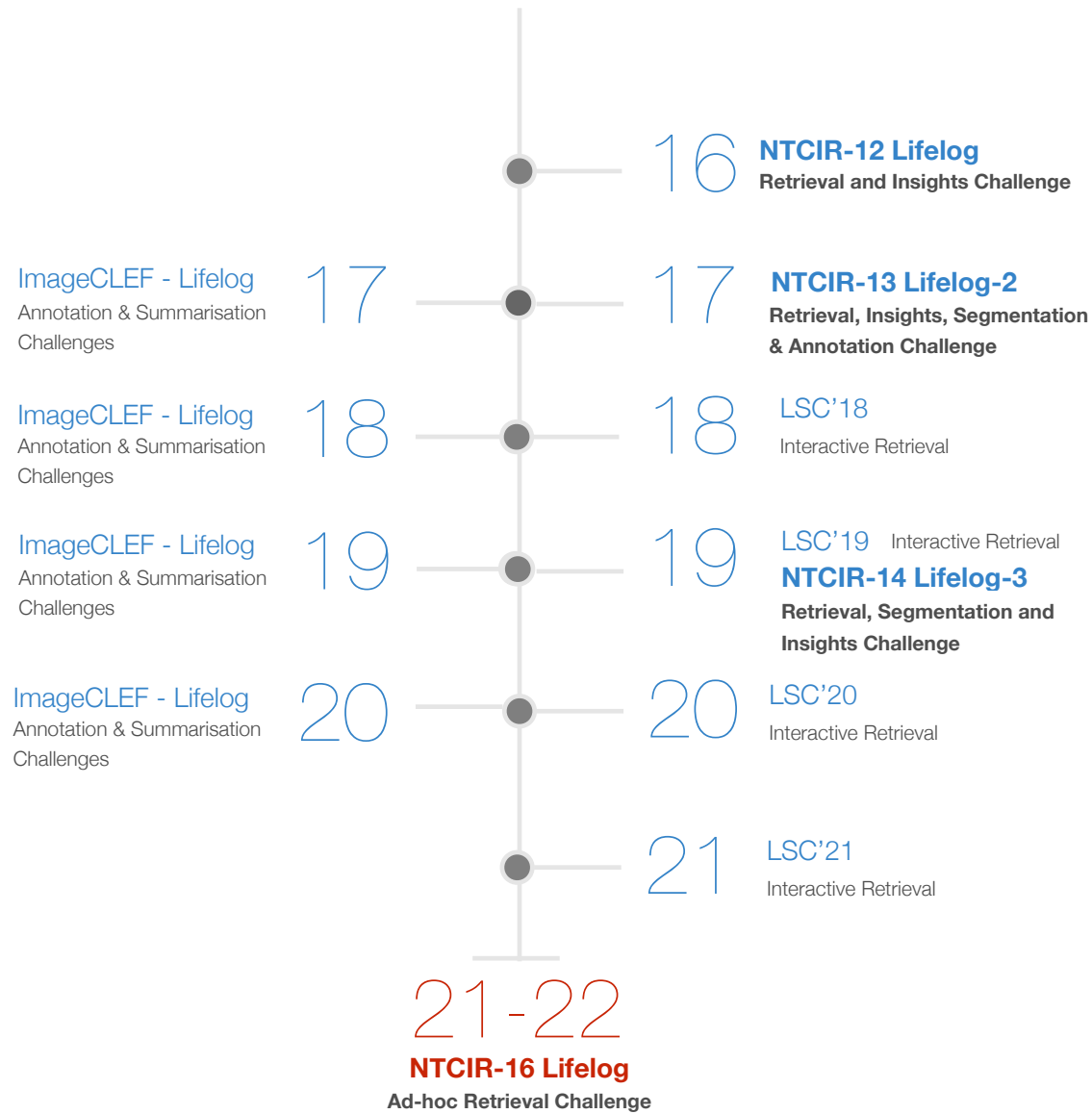
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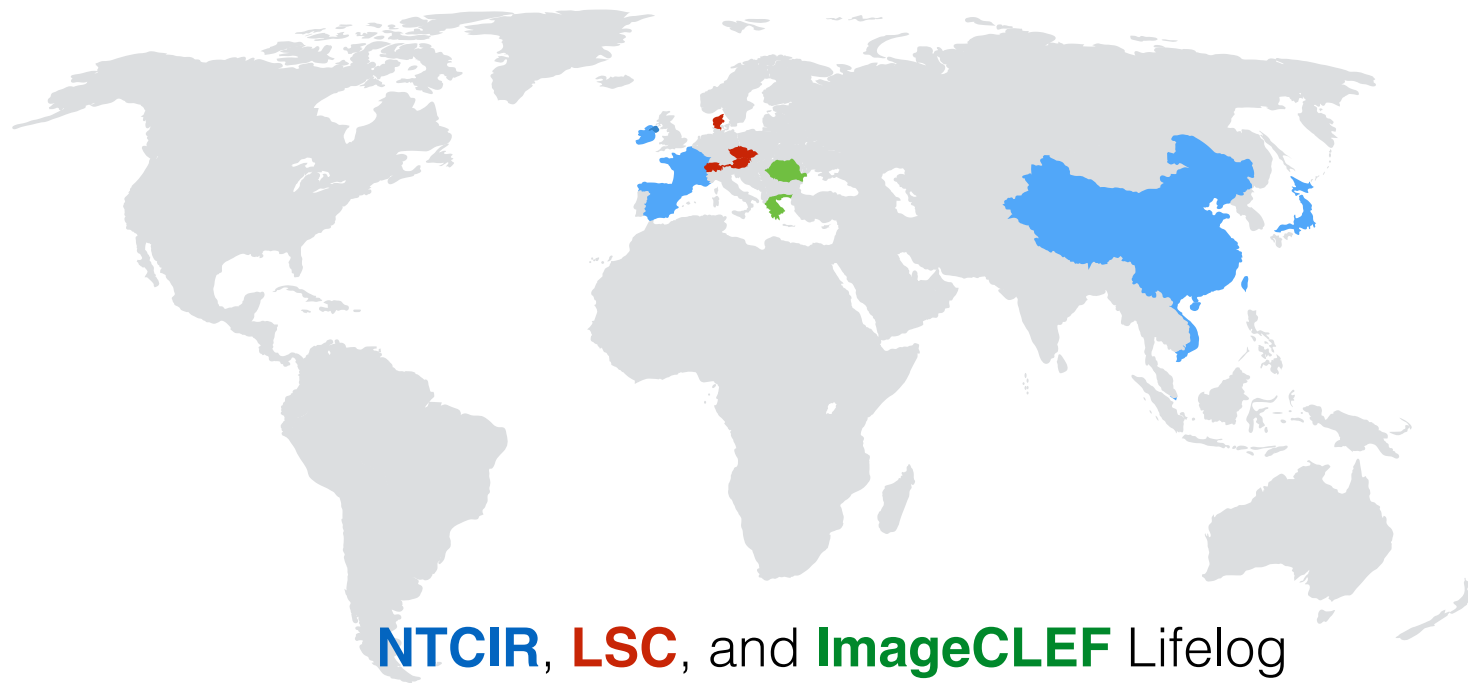


Increasing Relevance in 2021



Motivation for NTCIR-16 Task

- **Increasing relevance** to the technology landscape in 2021 and beyond.
- We are noticing increased interest in the retrieval challenge from lifelogs, especially noticeable by the growing participation in the LSC (Lifelog Search Challenge) participation workshop. **A larger potential participant pool.**
- Additionally the lifelog retrieval sub-task was always the most popular sub-task of our three previous Lifelog tasks at NTCIR 12-14.
- So for NTCIR-16, we are proposing a focused sub-task to address the challenge of retrieval from an existing lifelog dataset.
 - LSAT - Lifelog Semantic Access Task
 - Using an existing dataset that is fully anonymised



NTCIR, **LSC**, and **ImageCLEF** Lifelog
unique participants (submitting only)

Cathal Gurrin (2020)

LSAT - Lifelog Retrieval

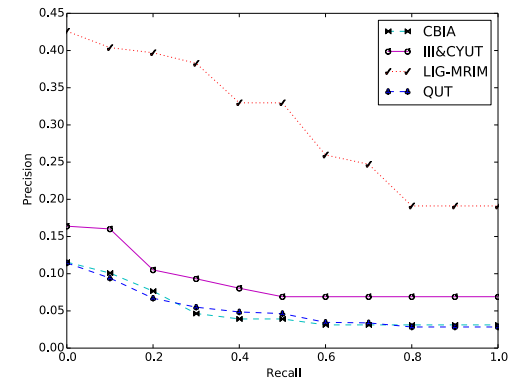
The Lifelog Semantic Access (sub) Task in which participants have to retrieve a number of specific moments in a lifelogger's life. We define moments as semantic events, or activities that happened throughout the day. LSAT can be undertaken in an interactive or automatic manner. We will provide a **base-line retrieval engine (via API)** for participants who want to build an interactive LSAT system.

Example search tasks include:

Find the moment(s) boarding an A380.

Find the moment(s) buying a TV.

Find the moment(s) taking photos of a friendly dog



Data Summary

- Four months of rich lifelog data from one person
 - Data requires about 38GB
 - With accompanying automatic visual-annotation and metadata
 - Location
 - Activity
 - Biometrics
- Data released via individual and organisational agreement (as at NTCIR12-14)



01

Wearable Multimedia

1,500 images per day from the Narrative wearable camera. Accompanying concept annotations. Periodic audio. Manual photos captured. Music

Human Biometrics

24x7 heart rate, galvanic skin response, calorie burn, steps, skin temperature. Daily blood glucose level & blood pressure. Weekly cholesterol and uric acid measurements.



02

MINUTE AS
THE UNIT OF
RETRIEVAL

03



Information Access

Onscreen reading, keystrokes on keyboard, mouse movements, computer activity, web pages viewed.

Human Activity

Physical activities (walking, running, transport, etc.), locations visited, food eaten, mood.



04

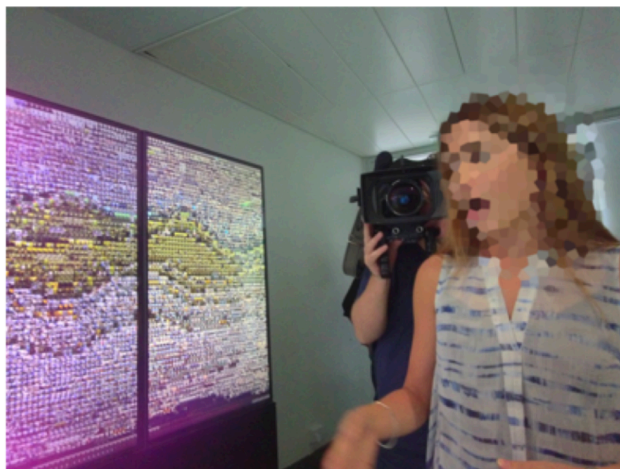

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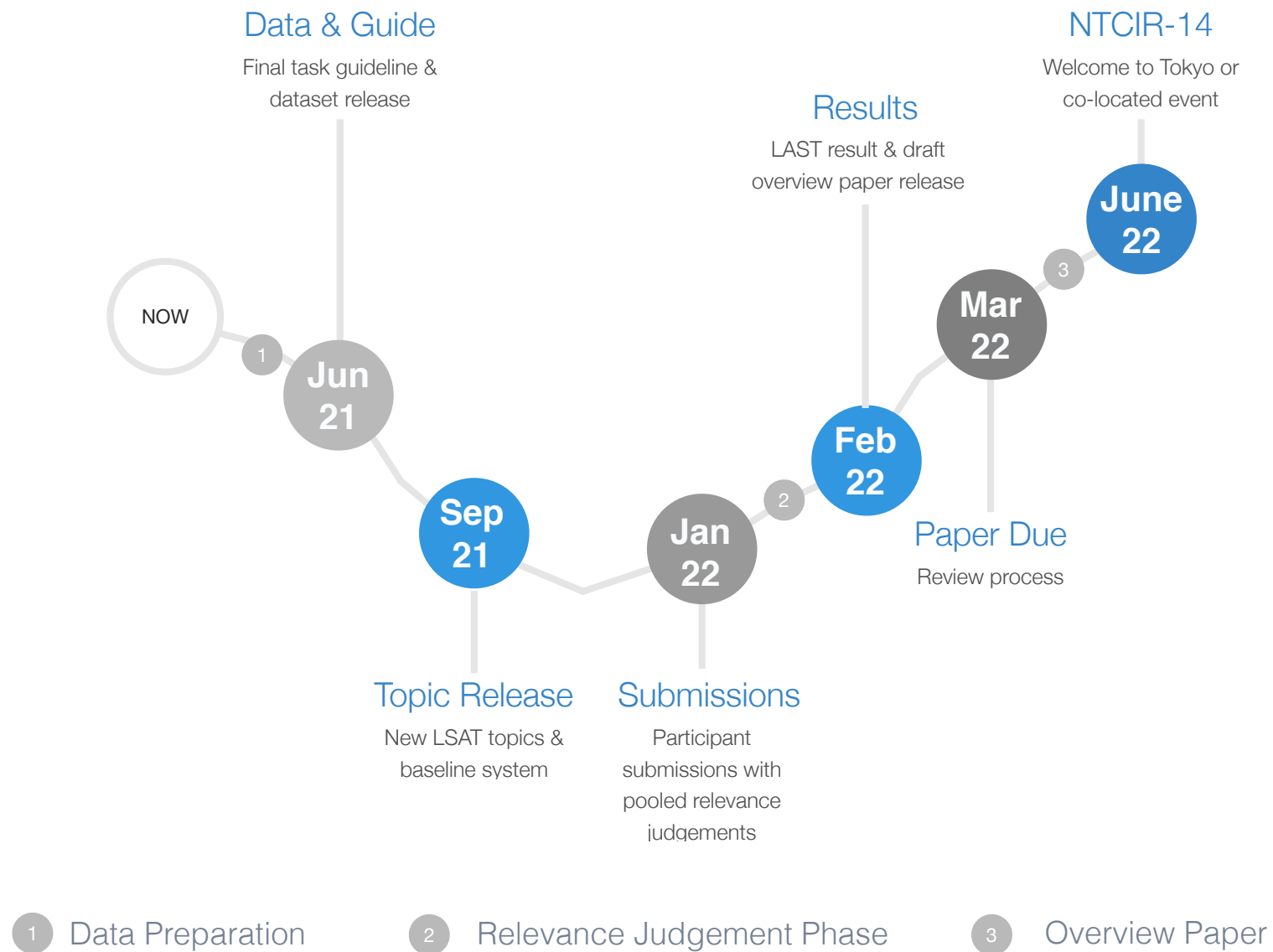
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NTCIR16-Lifelog

Not Secure | ntcir-lifelog.computing.dcu.ie

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NTCIR16 Lifelog Task

TASK HOME DATASET SUBMISSION ORGANISERS

NTCIR-Lifelog is a core task of the [NTCIR-16](#) conference. This core task aims to advance the state-of-the-art research in [lifelogging](#) as an application of information retrieval. The methodology employed for the lifelog task at NTCIR-16 is based on the successfully deployed methodology from NTCIR-12-14.

For this year, we will focus on the most popular task from the previous lifelog tasks. The Lifelog Semantic Access Task (LSAT) is a known-item search task that can be undertaken in an interactive or automatic manner. In this sub task, the participants have to retrieve a number of specific moments in a lifelogger's life. We define moments as semantic events, or activities that happened throughout the day. The task can best be compared to a known-item search task.

Example search tasks include:

- Find the moment(s) where I was boarding an A380 on my way to China
- Find the moment(s) where I am playing with my phone during a dinner date.
- Find the moment(s) where I am preparing breakfast before heading to the airport to return home.

The LSAT sub task can be undertaken by participants in either an automatic manner or an interactive manner. Automatic runs assume that there was no user involvement in the search process beyond specifying the query. Interactive runs assume that there is a user involved in the search process that generates a query and selects which moments are considered correct for each topic. It is important that the correct task submission type is identified by participants when submitting runs. There will be 24 topics prepared for the task, which will be available from the NTCIR server.

Related Links:

Important Dates (draft)

March 2021: Draft task guideline released

Jun/Jul 2021: final task guideline, training and test sets released

Sep/Oct 2021: Topics released

Jan 2022: Results submission due

Feb 2022: Evaluation results returned

March/April 2022: Paper submission due

May 2022: Camera-ready submission due

June 2022: NTCIR-16 Conference

ありがとうございます

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