

NTCIR14-Lifelog3

Task Introduction

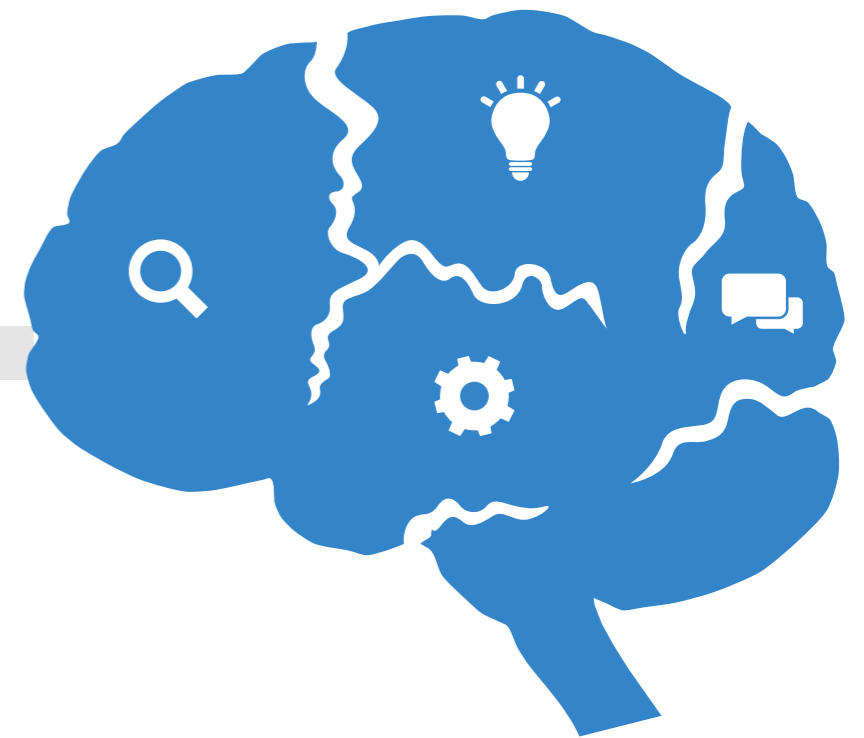
Cathal Gurrin¹, Hideo Joho², Frank Hopfgartner³, Duc-Tien Dang Nguyen¹, Liting Zhou¹, Rami Albatal⁴

¹Dublin City University, ²University of Tsukuba, ³University of Sheffield, ⁴IdenTV

Life Experience



Digital Self



How to create a digital lifelog of life experience without manual input... activities, experiences, interactions, emotions? ... **and make it useful...**

A close-up photograph of a person's hands lacing up a black and white athletic sneaker. The person is wearing blue leggings and a red wristband. The background is a blurred outdoor setting with trees and sunlight filtering through the leaves, creating a bokeh effect. The text is overlaid on the left side of the image.

**This year, we
introduce a
focus on
Activities &
Wellness**

Novelty of NTCIR14-Lifelog3

- New rich data (60 days, N people), fully anonymised
- Three sub-tasks:
 - LSAT - Lifelog Semantic Access Task
 - LIT - Lifelog Insights Task
 - LADT - Lifelog Activity Detection Task
- Potential to also have a co-located workshop in Europe

Data Summary

- Two months of rich lifelog data from two people
 - 2 x 30 days each, all day data (about 15GB)
 - With accompanying event segmentation, diet annotation and automatic visual-annotation
- Data released via individual and organisational agreement (as at NTCIR-12)
- Minimal anonymisation of the data



Wearable Multimedia

2,000 images per day from the Autographer wearable camera. Accompanying concept annotations. Audio levels. Manual photos captured. Music listening history.

01

Human Biometrics

24x7 heart rate, blood sugar, calorie burn, steps, skin temperature. Daily blood pressure. Weekly cholesterol 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

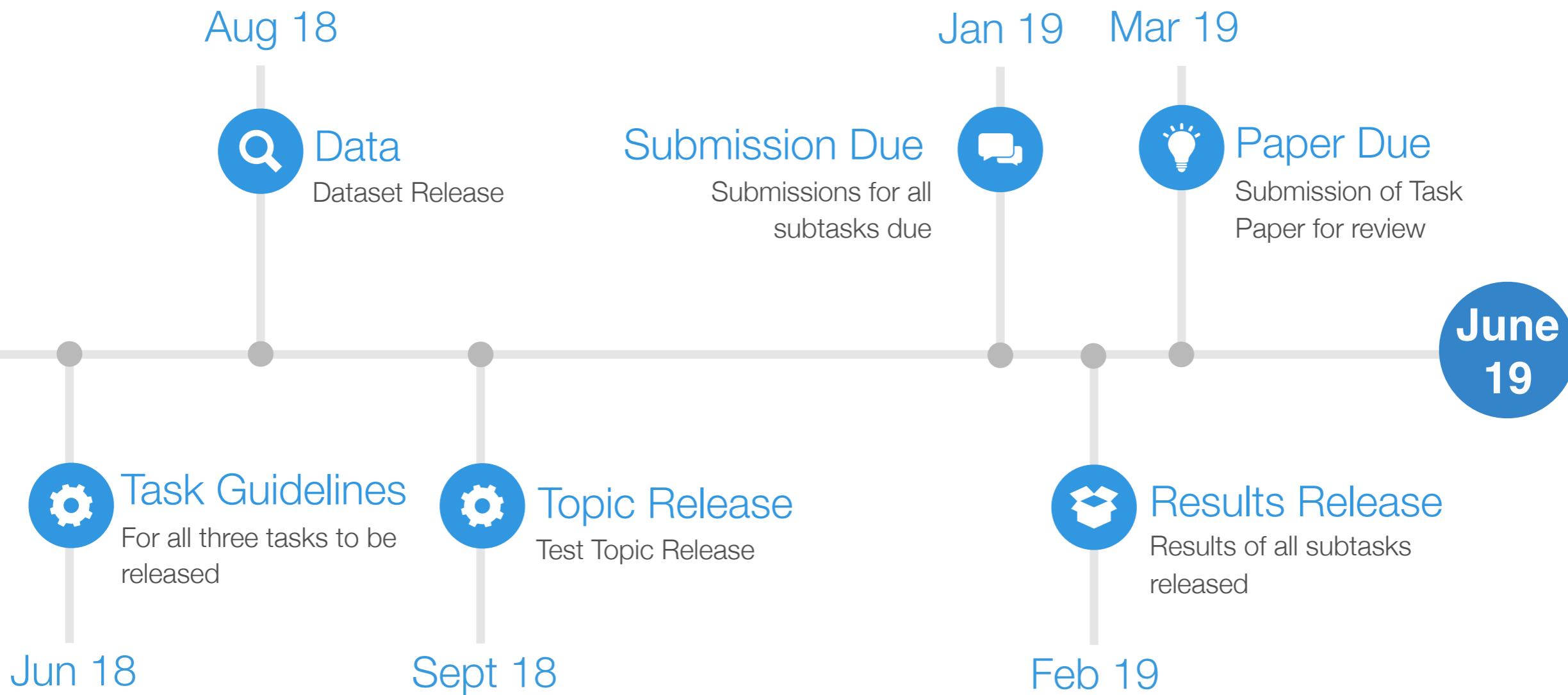
Physical activities (walking, running, transport, etc.), locations visited, food eaten,.



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Sub-tasks

- LSAT - Known-item search (repeat from NTCIR-12/13) Subtask
- LIT - Lifelog Insights Subtask
- LADT - Lifelog Activity Detection Subtask



LADT - Lifelog Activity Detection Subtask

A multimodal annotation task to automatically annotate the lifelog data with human activities.

1	2	3	4
Intimate relations	Socializing	Relaxing	Pray/worship/meditate
5	6	7	8
Eating	Exercising	Watching TV	Shopping
9	10	11	12
Preparing food	On the phone	Napping	Taking care of Children
13	14	15	16
Computer/Internet	Housework	Working	Commuting

Kahneman et al. A survey method for characterizing daily life experience: The day reconstruction method. *Science*, 306(5702):1776–1780, 2004.

LSAT - Known-item Search

A known-item search 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.

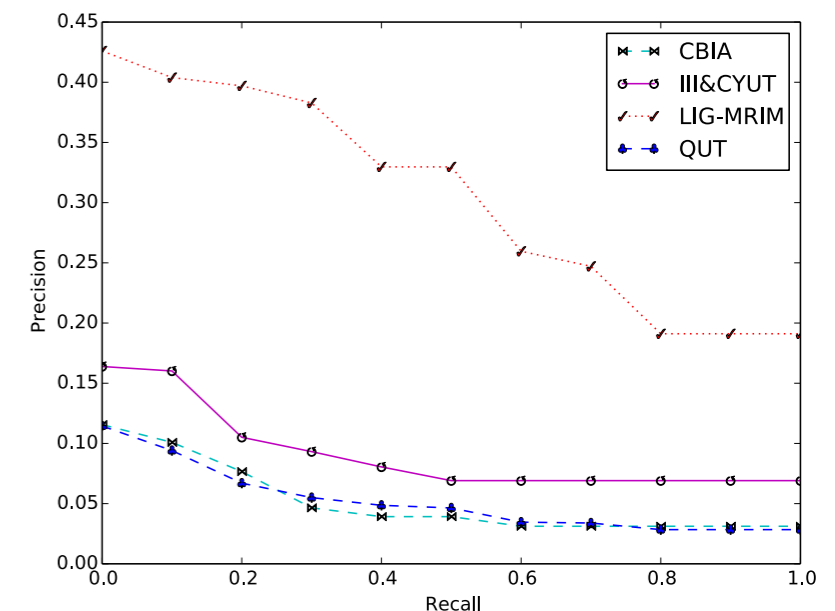
Example search tasks include:

Find the moment(s) where I was boarding an A380.

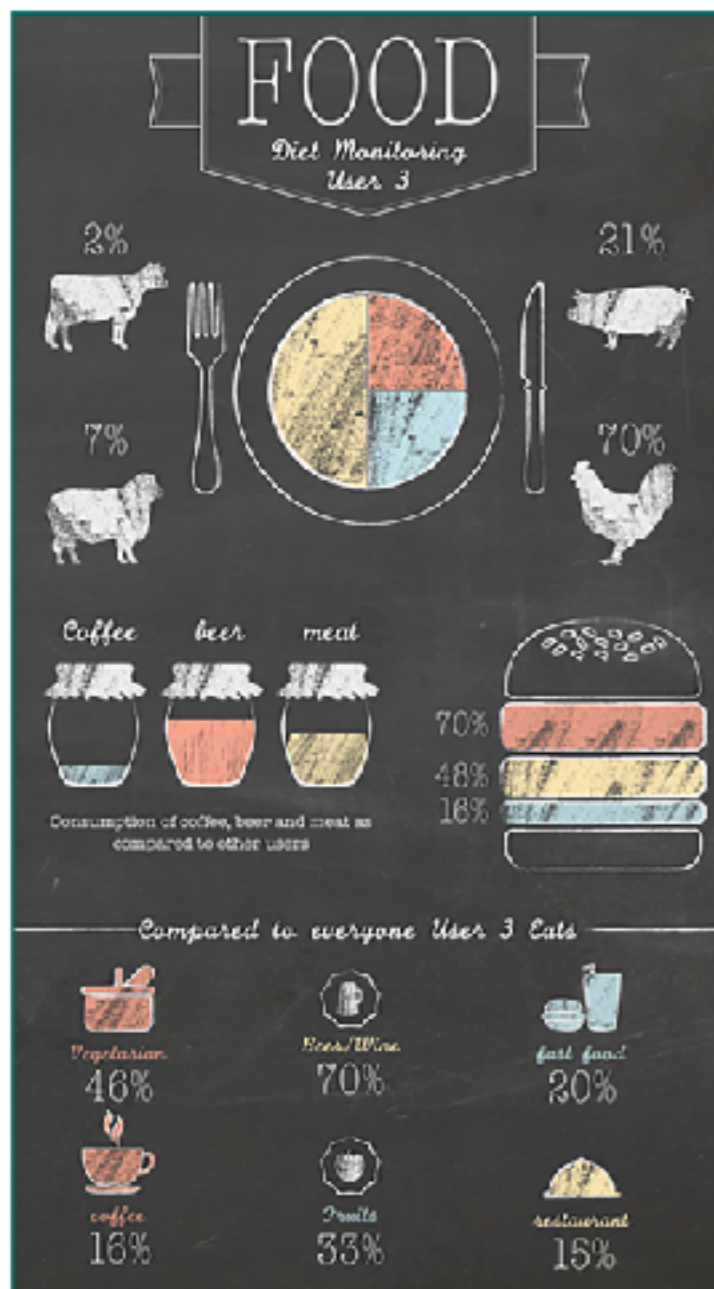
Find the moment(s) where I am in my kitchen.

Find the moment(s) where I am playing with my phone.

Find the moment(s) where I am preparing breakfast.



LIT - Lifelog Insights Task



The aim of this subtask is to gain insights into the lifelogger's life in terms of diet and health. This task is not evaluated in the traditional sense, but participants will be expected to present their work in a special session at NTCIR. An event segmentation will be defined for the data.

ありがとうございます

from:

NTCIR-14 Lifelog Organisation Team

Website (Apr 2018): ntcir-lifelog.computing.dcu.ie

Contact Email: cathal@gmail.com