**Subtasks**: Temporal Intent Disambiguation (TID).

**Keywords**: Temporal Intent, Query Intent Disambiguation, Time-series data, Wikipedia

**Intuitions**: Time-series data of queries on Google Trend is a good indicator to show how users' interests of queries change over time. However, the disadvantage is following:

- No absolute frequencies are available
- It is unknown what data pre-processing & cleaning steps occurred
- The aggregations occur at a month-by-month level

**Abstract**: Our approach focuses on the question of whether temporal signals, extracted from publicly available, external data sources (in this case the Wikipedia page view stream), as features in a machine learning setup are beneficial for this task.

**Methods**: Features are extracted from query content, temporal expressions and time-series data of Wikipedia page views of best-match concepts

**Runs & Results**:

1. The 3 runs submitted by WIS group:
   - **WIS-TID-E-1**: 227 query-content features, PCA with 50 components, Ridge regressor.
   - **WIS-TID-E-2**: query-content features + time-series features, PCA with 50 components, Ridge regressor.
   - **WIS-TID-E-3**: 227 query-content features, PCA with 100 components, SVM with RBF kernels.

2. Results overview of our submitted runs according to the official evaluation metrics.

**Results Analysis**:

1. What is the effect of features in 3 runs?

Ablation study of our submitted runs according to the official evaluation metrics.

- **MAE** and **Cos Sim** show similar trends in each feature.
- Time-series features reduce the impact of content features
- Features of verb tense play different roles in different models.

2. What is the impact of temporal features generated from Wikipedia page views?

3. What is the impact of predictor choice (regressor v.s. classifier)?