Experiments
Datasets

- As for queries, there are four different scenarios:
    1. All concepts in the query appear in the same video shot
    2. All concepts in the query appear in the video but not in the same shot
    3. Some of the concepts in the query appear in the video
    4. None of the concepts in the query appear in the video
        - Is to some extend the same as general form video summarization
- The dataset provide per-shot annotation, from which each shot labeled with several concepts.

Experiments

Compared Models

- **SeqDPP (2014):** formulates video summarization as a subset selection problem and use sub-modular maximization to found summary. (dose not consider user queries)
- **SH-DPP (2016):** extension of SeqDPP, add a extra layer in the process of SeqDPP to judge whether a video shot is related to a given query.
- **QC-DPP (2017):** another extension of SeqDPP, introduces memory network to parameterize the kernel matrix.
- **TPAN (2018):** the three-player adversarial network, uses GAN to tackle with the task and introduce a random summary as an extra adversarial sample.