

Proposed Method

Problem Formalization

- Given a long video v and a query q , find out the diverse and representative subset of query-related frames or video shots.
- Denote the task as a problem of calculating the shot-query similarity.
- Denote the video as a sequence of video shots (s_1, s_2, \dots, s_n)
 - n is the number of video shots
 - Each video shot is a small clip of the original video
- Denote h_q as representation of query

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- In the benchmark dataset, in where each query is consist of two concept (c_1, c_2)
 - Compute concept-related score for each shot
 - Then merge two kind of score as the query-related score
 - Finally, based on the score, can produce a diverse subset of video segments
 - Not only represent the origin video but related to the query
- **Input:** A long video v and a query q
- **Output:** A diverse subset of video shots remains original video info and related to query