Final items

- Please email an **updated final version** of your notebook paper by 1. March 2020 to gawad@nist.gov

- If your draft notebook paper is considered FINAL, **then also let us know!**

- Please update citations to give credit for resources used (see trecvid.nist.gov)

- If you gave a **presentation or have a poster**, please email me a **pdf copy** to put it on the website proceedings page

- Please send additional entries for the bibliography of peer-reviewed work using the TRECVID resources to gawad@nist.gov

- The call for participation will go out around Jan. 2020 with applications due end of Feb. **Please forwards the call to your colleagues/network.**

- The bus will leave at 6:00pm for the Courtyard Gaithersburg Washingtonian Center.

Tentative plans for TRECVID 2020

- **TRECVID workshop** – Traditional date at NIST would be Nov 16-18, 2020.

- **AVS** will continue (V3C1 , 20 new Ad-hoc topics and 20 progress queries, auto & manually-assisted runs, RF with some parameter revisions, explainability optional runs)

- **INS** will continue (BBC EastEnders data and 20 new topics of the form of "find person X doing action Y" and 20 progress queries, interactive, automatic, explainability optional runs)

- **VTT** will continue (new set of Vine/Twitter videos OR possibly new data source)

- **ActEV** will continue (VIRAT dataset with more activities (28 or more activities))

- New tasks proposed for 2020

    - Video Summarization

    - Disaster video/image classification

INTRODUCTION TO AUTOMATIC

VIDEO SUMMARIZATION TASK

Keith Curtis
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Motivation and Benefits

- Foster renewed interest in automatic video summarization and to advance the state of the art.

- Recent research [1] has shown that randomly generated summaries achieve comparable performance to the state of the art.

- Uniform task, dataset, and evaluation methods allow for new techniques to be easily compared to existing techniques and for the establishment of baselines.

- Potential to develop new technology which can be used in the domains of video summarization for movies, news, TV shows and sports, and the analysis, segmentation and summarization of life-logging recordings.

[1] Otani, Mayu, et al. "Rethinking the Evaluation of Video Summaries." *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*. 2019.

Task Intro

- Summarize the *major life events* of specific characters of the BBC Eastenders series.

- Limited to events over an 8 - 10 week period of the show.

- Characters chosen based on the significance of their storyline over the 8 - 10 week period.

- Summaries limited by *length & number of shots permitted*.

- Major challenge for systems is to determine which shots are most likely to convey the major life events of a character.

- Life events examples:
  - Marriage, Divorce, Giving birth, Death, Major Accidents, Employment issues, Relationship issues.

Assessment of Submissions

- A set of questions will be developed by NIST personnel to assess different facets in a character's storyline.

- Questions will be provided to assessors but not to task participants.

- All necessary background information on the storyline will be provided to assessors.

- Good summaries should contain shots which **answer these questions for assessors**.

- Assessors will also rate summaries on their comprehensibility, contextuality, and smoothness of cuts.

Data ...

- The British Broadcasting Corporation (BBC) and the Access to Audiovisual Archives (AXES) project made **464 h** of the BBC soap opera EastEnders available for research
  - 244 weekly "omnibus" files (MPEG-4) from 5 years of broadcasts
  - 471527 shots
  - Average shot length: 3.5 seconds
  - Transcripts from BBC
  - Per-file metadata

- Represents a "small world" with a slowly changing set of:
  - People (several dozen)
  - Locales: homes, workplaces, pubs, cafes, open-air market, clubs
  - Objects: clothes, cars, household goods, personal possessions, pets, etc
  - Views: various camera positions, times of year, times of day,
  - Use of fan community metadata allowed, if documented

Example Mini-Task - Summarize the major life events of Heather in (vid)

Example Questions for Assessors:

- A - How was Heather taken to the hospital?

- B - Why was she taken to the hospital?

- C - What name does she give her child?

- D - Who is the father of her child?

Important: Assessors are not being quizzed on this, they simply rate summaries based on their ability to provide answers to these questions!

Example shots which may answer questions posed to assessors

- A - How was Heather taken to the hospital?

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Example shots which may answer questions posed to assessors

- B - Why was she taken to the hospital?

Example shots which may answer questions posed to assessors

- C - What name does she give her child?

Example shots which may answer questions posed to assessors

- D - Who is the father of her child?

Disaster video/image classification

General suggestions/questions

- *TRECVID welcomes suggestions for new tasks (due Sep, 2020 to start in TV2021).*

- *Any general comments or feedback to the organizers ?*

- *Can participant teams provide baseline systems, features, or models to help new teams use existing resources to finish and submit runs?*

- *Please send any suggestions for new external software development resources (e.g. github repos, etc) to be added to the tools & resources link at our website:*

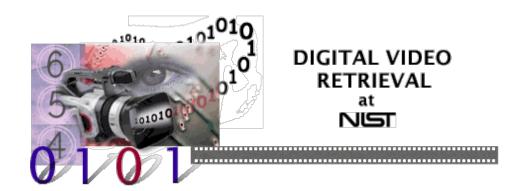 *http://www-nlpir.nist.gov/projects/trecvid/tv.resources.html*

THANK YOU

See you again in TRECVID 2020