

Annotation of TRECVID 2008 Development Keyframes

MCG-ICT-CAS

Multimedia Computing Group, Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China

This year, we organized 15 persons in our group to annotate 20 concepts of the 39674 TRECVID 2008 development keyframes, and each concept was annotated by one person, and checked by another person. Therefore, we arranged 10 persons to annotate 20 concepts (each person annotated 2 concepts), and another 5 persons to check all the annotation (each person checked 4 concepts).

The keyframes include two parts: the first set is TRECVID 2007 development keyframes (21532 frames) extracted by George Quenot et al, and the other set is extracted by our team last year. We extracted only one keyframe per shot for the TRECVID 2007 test data (totally 18142 keyframes for the test data). We used the middle I-frame as keyframe for each shot. We kept the time information of our keyframes in the file KeyFrameInfo.rar.

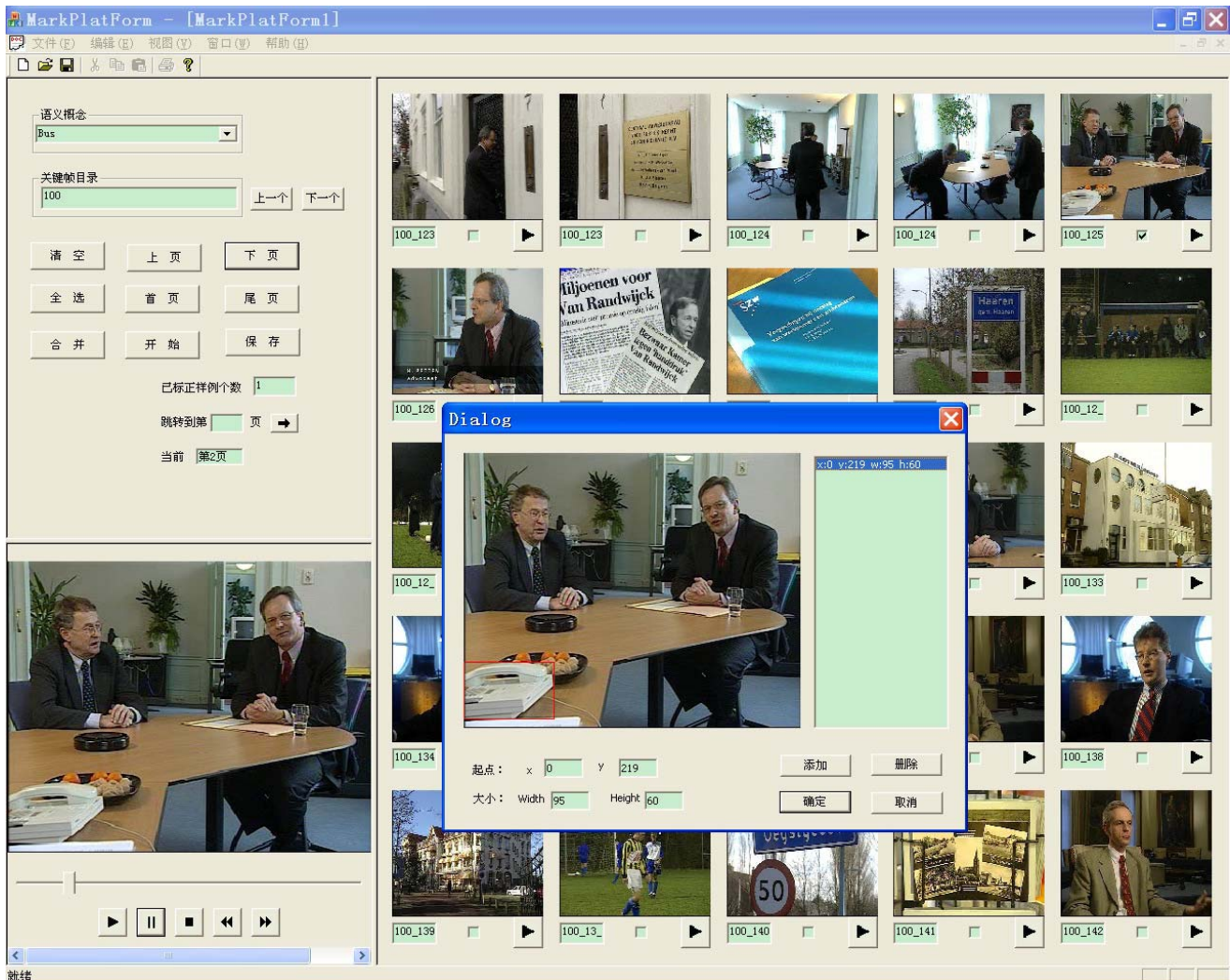


Fig.1 The interface of our annotation

We divided the 20 concepts into 2 groups:

1. Object-related concepts: we located and recorded the rectangle range of the local object such as the telephone shown in the Fig.1 (We add this function to our last year's annotation system). This group includes 14 concepts:

002 Bridge, 003 Emergency_Vehicle, 004 Dog, 006 Airplane_flying, 007 Two people, 008 Bus, 009 Driver, 012 Telephone, 014 Demonstration_Or_Protest, 015 Hand, 016 Mountain, 018 Boat_Ship, 019 Flower, 020 Singing.

2. Scene- related concepts: we regarded the whole frame as an object concerned with the concepts. This group includes 6 concepts:

001 Classroom, 005 Kitchen, 010 Cityscape, 011 Harbor, 013 Street, 017 Nighttime.

We tried to provide more information, so we selected more concepts to the object-related concepts, such as 014 Demonstration_Or_Protest, 020 Singing for locating the relative persons.

We checked and corrected obvious annotation errors with the same interface after collecting the individual annotation results.

Each line of the annotation files represents a judgment, and contains the following information:

Annotation_Person Organizer Concept Videoname KeyframeName Judgment(Positive/Negative)
rectangle boxes for object-related concepts

Where "Annotation_Person" is abbreviated by the first letters of his/her surname and firstname.

We provide 4 files:

1. KeyFrame information file: KeyFrameInfo(MCG-ICT-CAS).rar
2. Annotation for all keyframes (NOT include rectangle boxes): Devel08Ann-All(MCG-ICT-CAS).rar
3. Positive keyframes for 20 concepts (NOT include rectangle boxes): Devel08Positive(MCG-ICT-CAS).rar
4. Positive keyframes for 14 object-related concepts (Include rectangle boxes): Devel08PositiveObject(MCG-ICT-CAS).rar

Contact Person:

Dr. **TANG Sheng**, Associate Professor
Multimedia Computing Group,
Key Laboratory of Intelligent Information Processing,
Institute of Computing Technology,
Chinese Academy of Sciences
Beijing, China
Email: ts@ict.ac.cn