1 Team details

- Team name

  esb

- Team leader name

  Yu Zhu

- Team leader address, phone number and email

  395 Evansdale Dr, Morgantown, WV, USA, 26506 yzhu4@mix.wvu.edu 304-685-5726

- Rest of the team members

  Yan Li

- Team website URL (if any)

- Affiliation

  Lane Department of Computer Science and Electrical Engineering, West Virginia University

2 Contribution details

- Title of the contribution

  Culture Event Recognition using Deep Features and Random Forest

- Final score

- General method description

  Two deep networks are trained and deep features are firstly extracted. Random forest is then trained using the deep feature for event classification.

- References

- Representative image / diagram of the method

3 Data Preprocessing

- Describe features used or data representation model (if any)

  Deep features are extracted from fine-tuned googlenet and fine-tuned VGG16.

- Dimensionality reduction technique applied (if any)

- Segmentation strategy used (if any)

- Other techniques/strategy used not included in previous items FOR DATA PREPROCESSING (if any)

  Data augmentation is applied on the training data for fine-tuning the deep network.

4 Classification details

- Classifier or method used to train and validate your results (if any)

  Random forest

- Large scale strategy (if any)
- Compositional model used (scene context representation), i.e. pictorial structure (if any)
- Other technique/strategy used not included in previous items FOR CLASSIFICATION (if any)

5 Global Method Description

- Total method complexity analysis: all stages
- Which pre-trained or external methods have been used (for any stage, if any):

  Googlenet model, VGG16 model

- Qualitative advantages of the proposed solution

  1. Simple method 2. Easy implement

- Results of the comparison to other approaches (if any)
- Novelty degree of the solution and if is has been previously published

6 Other details

- Language and implementation details (including platform, memory, parallelization requirements)

  1. Platform: Ubuntu 14.04
  2. Language: Python, Matlab, Linux Shell
  3. Memory: <=32G
  4. Other requirement: Multi-processor machine, machine with GPU

- Human effort required for implementation, training and validation?

  A few man days

- Training/testing expended time?

  A few days

- General comments and impressions of the challenge?

  Generally the challenge is very good. It is better if a faster evaluation protocol is provided. It is better if participants can receive more notification emails for either confirmation or any other important update and announcement.