Projects from ACM Multimedia 2013

Objective:

The students are required to repeat a research project reported in a paper published in 2013 ACM Multimedia conference. The goal is to allow students to gain experience in multimedia research.

Project Description:

Read some of the following papers:

1. "Wow! You Are So Beautiful Today!":
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p3-liu.pdf
2. GIANT: Geo-Informative Attributes for locatioN recogniTion and exploration:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p13-fang.pdf
3. Attribute-augmented Semantic Hierarchy:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p33-zhang.pdf
4. Topology Preserving Hashing for Similarity Search:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p123-zhang.pdf
5. Linear Cross-Modal Hashing for Efficient Multimedia Search:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p143-zhu.pdf
6. Indexing Billions of Images for Sketch-based Retrieval:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p233-sun.pdf
7. Clickage: Towards Bridging Semantic and Intent Gaps via Mining Click Logs of Search Engines:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p243-hua.pdf
8. FlashStream: A Multi-tiered Storage Architecture for Adaptive HTTP Streaming:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p313-ryu.pdf
9. Flickr-tag Prediction using Multi-modal Fusion and Meta Information:
   http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p353-su.pdf
10. Large-Scale Multimedia Content Analysis Using Scientific Workflows:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p813-sethi.pdf
11. Cross-Media Semantic Representation via Bi-directional Learning to Rank:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p877-wu.pdf
12. Listen, Look, and Gotcha: Instant Video Search with Mobile Phones by Layered Audio-Video Indexing:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p887-liu.pdf
13. Analysis and Forecasting of Trending Topics in Online Media Streams:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p907-althoff.pdf
14. Automatic Generation of Social Media Snippets for Mobile Browsing:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p927-yin.pdf
15. Towards Efficient Sparse Coding for Scalable Image Annotation:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p947-huang.pdf
16. Annotation for Free: Video Tagging by Mining User Search Behavior:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p977-yao.pdf
17. Scale Based Region Growing For Scene Text Detection:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p1007-mao.pdf
18. Visual Interestingness in Image Sequences:
    http://www.cs.clemson.edu/~jzwang/1501863/mm2013/p1017-grabner.pdf

You must at least implement the basic algorithms, schemes, or systems discussed in the paper. You also need to repeat some experiments presented in the paper to validate your implementation. You are encouraged to design new algorithms or use new approaches to solve the same problem. If you propose a new solution, you need to compare your solution with the ones presented in the paper through analytical study or experiments.

Questions and Concerns:

If you have any questions or concerns regarding this project, or if you feel any part of the project description is confusing, please talk to the instructor. Making false assumptions about the project may result in a low grade.

You are not allowed to contact the authors of these papers unless you obtain a written permission from the instructor. Any attempt of contacting the paper authors without permission of the instructor will be considered as cheating. It may result in a zero (0) in your project grade.