Hands On: Multimedia Methods for Large Scale Video Analysis (Project Meeting)

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Today

- Time Schedule Discussion
- How to Access Amazon
- Tools at ICSI
Important Dates:
- Mid-Term Exam: Oct 19th (Friday)
- Final Exam: Dec 7 (Friday)
- Project Due: Dec 14
Time Schedule

Important Dates:
- Mid-Term Project Presentations: October 17 & October 24
- Final Project Presentations: November 21 & November 28
How to use Amazon EC2

Login to:
https://cs294-82.signin.aws.amazon.com/console

Using your ICSI account name and the first 6 digits of your student ID as a password.

Change your password!
Important to remember:
- Every STUDENT has $200. DO NOT go over the limit. The account is shared among all students.
- If you want to use the API (e.g. to use MIT StarCluster) talk to me about an API key.
How to use Amazon EC2

Demo
Tools at ICSI

Start-Up Script:
- sets coredump size
- man path
- tool paths (run-command)
- path to SRI speech recognizer

https://speechwiki.icsi.berkeley.edu/speechwiki/index.php/YourEnvironment
Tools at ICSI

Generating Audio Features

- htk (mfcc)
Use HCopy and htk.conf

- feacalc (for other features)
Tools at ICSI

Audio Segmentation and Clustering
- Multicore
- SeJITs

http://www1.icsi.berkeley.edu/~fractor/diarization_test/
Tools at ICSI

Speech Recognizers
- Talk to Adam Janin (ICSI), David Sheffield (UCB)
Tools at ICSI

Extracting Visual Features:
- Compressed Domain:
  Patched FFMPEG
- SIFT:
  http://www.cs.ubc.ca/~lowe/keypoints/
- GIST:
  http://people.csail.mit.edu/torralba/code/spatialenvelope/
Tools at ICSI

Machine Learning
- GMM Training:
  SEJITs, Unicore
  http://www1.icsi.berkeley.edu/~fractor/diarization_test/
- Neuronal Networks:
  QuickNet
Next Week (Project Meeting)

- ICSI’s TrecVID MED 2012 Approach (Ben Elizalde)
This Week (Lecture)

- Multimedia Content Analysis Systems