

~~remote~~

wb markers

display, dongle

<is there a clock?>

black screen

Piazza: topic/paper suggestions

Lecture 1

CS 6742 Assignment 1 (A1) has been posted : <http://www.cs.cornell.edu/courses/cs6742>
Colloquium (research) talk by me today, 4:15 B17 Upson
Auditors: non PhD students: see me after class
(just say it)

Hi, and welcome to the first meeting of CS6742, "Natural language processing and social interaction".

I'm the instructor; I'm a professor in computer science and in information science, and these days,

~~NLP and social interact~~ research in NLP and social interaction is what I do for a living,
 (and for fun, come to think of it).

I'd give you more specifics now, but
 (point)

I'm giving the CS department colloquium today,
 where I'll be talking about two recent projects I've been involved
 in that I'm really excited about,
 so please come to that talk if you'd like to hear about what I've
 been up to lately.

~~About the course~~
 As for this course and why it exists:

We all know that spoken/written language is one of the main
 channels by which we human beings communicate with each other.
 (If you're wondering what some of the other channels are,

there's facial expression

gesture
 actions ~~or and~~ even inactions, if you think about it
 posture ...)

Anyway, about all this language-based communication:

I doubt it's escaped your notice that more and more of such
 communication is becoming computationally accessible, since it's
 online.

Just to reel off ~~some~~ ^{one} facts/dig:

As of June 2012, Twitter was seeing 400 million tweets per day (CEO of Twitter
@ [CEO of Twitter @ an Economist event])

(1 m,
10 m,
100 m)

In 2011, typical corporate email user sends ~~receives~~; receives ~105 emails/day.

About 17% getting to mailbox are spam + graymail (unwanted notifications/newsletters).

(This is actually lower than before 5% of IMs/social networks)
[Radicati report]

We can ~~outline some possibilities that this computational accessibility of conversations implies~~ conversational interactions that are computationally accessible; although I don't mean the following classification to necessarily be taken too seriously,

but ~~it's~~ taking this perspective allows one to gradually realize how broad the playing field is.

~~When you first think of conversations, what might spring to mind is:~~
"private audience" (analog of f2f conversations, @ 1st blush):
IMs, chats, emails.
small
or @ least intended.

writing down ~~so~~
to indicate that
students should
take notes.

~~The classification I'm going to present is based on audience~~
Now, actually, the differences and similarities wrt f2f conversations is an interesting topic that we won't get into today.

~~is an important factor in communication.~~
But just to point out some interesting work done @ Cornell on the subject,

Let me briefly mention some work done by Jeff Hancock and colleagues;

Jeff is a professor of communications.

Aside: "distancing" of medium vs. probability of lying? No.

↓
over email
over IM
" phone
f2f



(Jeff)
(Joke "Phone gesture
still works")

but nature of lie
must be taken
into acct:

"gotta go"

- ~~I'll post lecto.~~
lecture refs → course homepage

[Hancock, Thom-Santelli, Ritchie '04]

↓
People thought of diaries
" private blogs.
But also liked the point
about "her day"

The classification I'm going to present is based on audience
is an important factor in communication.
Even for diaries which are meant to be totally private and for no one else's eyes - diary entries often start with?

OK, so but anyway, ~~there are these~~ yes, many of the conversations we have are one-on-one.

in the online
or offline work

But you pretty we also have group conversations pretty frequently, where more people are involved, and that may also be semi-public depending on when they take place

private/public audience

~~private or private-ish intended audience, public location~~ = group discussions:
when do these take place online?

social-network conversation threads

blog comment threads

Q/A ~~but~~ when "blog" here is broadly construed

some may be meant for ~~some~~ a subset of participants
~~quotation marks b/c there may be any element~~
~~of the public b/c an actual audience~~
~~existing as well~~

but may also be an element of the public being an intended audience, as well,

~~Ok, so if we've written~~

And that thought leads us to:

public audience = analog to 'soap boxes'

blog posts (even w/ comments)

what else?

one you might not think of: reviews on

review aggregation sites (Yelp, Amazon, etc.)

now, here, you may feel like challenging me:

ads discussion sites

That is, you might ask, "~~does~~ does someone leaving a review on Amazon ~~really~~ qualify as a kind of social interaction?

~~And~~

Not surprisingly, I'd like to ~~say~~ consider that within scope.

The more obvious way to see this is to ~~think~~ of such a review as ~~a~~ an act that may cause so. else to

- adopt an opinion

- change their mind

- make a decision, such as to buy

But you'll see another perspective in the reading I'll be assigning to you today

More on that later.
in future lectures and

Now, given that we have all the interactions manifested in natural-lang. format, what can we do with them?

~~The~~ We'll be pursuing two opportunities in this course:

Two opportunities of ~~intervention~~:

~~usual~~
standard approach: mining from ^a large-scale ~~corporus~~
(“bodies” of “text”)

- 2) Facilitation : use NLP to improve interactions, or cause them
Ex: make hidden state evident (confusion, antagonism, etc...)
Maybe even intervene?

I want to bring to your attention a particular w.
It's nice when these go hand-in-hand.

~~But speaking of of~~

~~But speaking of opportunities~~, I want to take this opportunity to talk about another facet of this course.

about another facet of this -

¶ This word "opportunities" here - notice it doesn't say "solutions".
This is meant to indicate that this class is a
↳ research-oriented course

西

~~And the reason is that I think it's fair to say that there's~~
~~That's The reason is that we have to make~~
This ~~class~~ can't be a survey of ~~approaches~~ known approaches to this problem
b/c there's ~~can't~~ aren't really a set of established approaches
yet.

... just understanding processing language "in the wild" is hard.

③ Example review excerpt:
"Read the book" → positive or negative opinion?

[Example due to Bob Blaauw]

② (or, "She runs the gamut of emotions from A to B".) ~5 people didn't see all non-native speakers of English.

① or, "If you like this fragrance, please wear it @ home and tag your

windows shirt."
so be proud of yourself
for being able to understand
language @ all.

→ meaning is clear to you.
you have to know what scents / smells
can be flagged this way.

→ you have to know that the word
phrase is gant -- for A to Z.

Even a human can't tell, b/c of
context degradation.

OK, so that's one reason this is a research-focused course,
is because the very topic matter is one in which, in a sense, very little is
known.

There's also a second reason why this is a research-oriented course,
and that's b/c I know not all of you are going to do research
in NLP for a living,

but good-level courses are for all PhD students,
when PhD students are people who are planning on doing research for a

why research #2: living -

... 6000-level courses are training for PhD-level research.

So much of the way this course is organized is driven by the desire to
provide training in the research process, whatever your eventual
research interests turn out to be.

So the end product will be a research project, and the goal is throughout
the semester is to get work through
the process of doing a research project.

How does this agenda inform the course structure?

First the early part of the course is going to ~~interleave~~ presentation of fundamental material with you doing a pilot research study right off the bat.

- show webpg. show prior year to demonstrate lots of info (about)
- show course structure

8:55 Q: 1st talk about subject matter (what's it about?)

Will be doing

So as you can see, your first ass't is released as of today.

~~HW~~ ~~submit~~ ~~AI~~

~~you'll have to come up with~~

~~It asks you to engage in & pt come up with~~

~~It involves 2 readings, one on reviews and one on comment threads.~~

~~You're tasked w/ coming up with a research idea based on those readings, and do a pilot empirical study.~~

Notice that ~~is~~ simultaneous with that assignment

~~will be~~ ~~be~~ doing some lectures on online reviews and conversation threads, together w/ some gray discussion of the readings so I can ~~ask~~ how you pilot studies are going

After that...

some bkgd lectures

Eugene Charniak: 'do sthg'

then some student-led versions of AI, where we read papers; try at some research ideas inspired by them

and then there's the final-project portion of the course.

AI is representative of the spirit of the course, so intended or planned

#AI.

~~start~~

ended @ about 11:10.

About 30 showed up.

Now PhD,
Master, undergrad
auditors?!