Lecture 19:
AI, Robot and HCI

April 26
CMSC 421 Topics

- Intelligent Agent
- Search and Game Playing
- Planning
- Reasoning
- Learning
- Language
- Perception (Speech and Vision)
• Spam filter
• Collaborative Filtering
• Intelligent Assistant
• Speech
• Vision
Dear mail.csail.mit.edu Email Account User,

Warning: This message may not be from whom it claims to be. Beware of following any links in it or of providing the sender with any personal information. Learn more

Dear mail.csail.mit.edu Email Account User,

We wrote to you on 8th April, 2010 advising that you change the password on your account in order to prevent any unauthorized account access following the network instruction we previously communicated.

all Mailhub systems will undergo regularly scheduled maintenance. Access to your e-mail via the Webmail client will be unavailable for some time
<table>
<thead>
<tr>
<th>User</th>
<th>Message</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>tomyeh</td>
<td>Hi, I'm like blond and cute, can I talk with you?</td>
<td>Apr 8</td>
</tr>
<tr>
<td>TurboTax Online</td>
<td>» TurboTax User ID: Only 7 Days Left.</td>
<td>Apr 8</td>
</tr>
<tr>
<td>Mondera</td>
<td>» With this Ring ... Shop Now and Save</td>
<td>Apr 8</td>
</tr>
<tr>
<td>Min Emeline</td>
<td>Order Vicodin, Phentermine, Codeine,</td>
<td>Apr 8</td>
</tr>
<tr>
<td>Steve Mount</td>
<td>Re: [CFAR Seminars] Olga Troyanskaya</td>
<td>Apr 8</td>
</tr>
<tr>
<td>Donya Maegan</td>
<td>Sold Out - LIMITED UNITS WATCHES!</td>
<td>Apr 8</td>
</tr>
<tr>
<td>SuperShopper.org</td>
<td>» Better than Craigslist - Local Classified</td>
<td>Apr 7</td>
</tr>
<tr>
<td>bhale</td>
<td>4/13 MITH Digital Dialogue: Sharon Le</td>
<td>Apr 7</td>
</tr>
<tr>
<td>Charlotte Tula</td>
<td>Sold Out - LIMITED UNITS WATCHES!</td>
<td>Apr 7</td>
</tr>
<tr>
<td>master-gis</td>
<td>» Laboratory Glassware Catalog</td>
<td>Apr 7</td>
</tr>
</tbody>
</table>
Tom, Welcome to Your Amazon.com (If you're not Tom Yeh, click here.)

Today's Recommendations For You

Here's a daily sample of items recommended for you. Click here to see all recommendations.

- **Milwaukee 6020-21 1 / 4-Sheet Orbital Sander**
  - Average rating: 4 stars (42)
  - Price: $42.25
  - Fix this recommendation

- **Baby Signs: How to Talk wit...**
  - Average rating: 4.5 stars (9)
  - Price: $11.53
  - Fix this recommendation
Video: MS Bob
It looks like you're writing a letter.
Would you like help?
- Get help with writing the letter
- Just type the letter without help

Don't show me this tip again

What do you want to search for?
- Pictures, music, or video
- Documents (word processing, spreadsheet, etc.)
- All files and folders
- Computers or people
- Information in Help and Support Center

You may also want to...
- Search the Internet
- Change preferences
- Turn off animated character
Video: PaperClip Guy
GetHuman phone numbers, customer service shortcuts, reviews & tips for companies worldwide

Read the latest customer service news

Qwest: CenturyTel Acquisition Pr... 2 days ago
American Express: New Report Cla... 4 days ago
Comcast: Wow...All I Can Say Is ... 6 days ago

Read company reviews from customers

"I just wrote my review, but ..." for TJ Maxx 1 hr ago
"Would not refund my money, e..." for TJ Maxx 1 hr ago
"I had an unprocessed order, ..." for Dell Sales 4 hrs ago

»Start typing any company name

Companies – 25 of 1,838

AT&T 888-387-6270 This number connects directly with a A... more » 12.6 min Average
Facebook 0- Good luck with this one but it does sa... more » 76.8 min Horrible
Bank of America 877-231-9372 Keep dialing 0 at the prompts, and the... more » 7.8 min Average
Comcast 800-266-2278 Press *# at each prompt, ignoring mess... more » 11.0 min Average
DirecTV 800-824-9081 Say "Technical Support" or "CRG" if you... more » 14.3 min Average
Verizon Wireless 888-233-4813 Direct to human more » 4.1 min Good
AT&T U-Verse 888-722-9337- Dial ext. x924. Direct to technical su... more » 8.4 min Good
T-Mobile 800-937-8997 Say "Representative" after the prompt more » 9.5 min Good
Delta Airlines 800-221-1212 Press 0 at each prompt, ignoring messa... more » 14.5 min Good
Voice Control

dial
call
song by?
shuffle

Cancel
The diagram illustrates the relationship between different sounds in English. The words and sounds are connected to depict their phonetic similarity:

- /æ/ (a) as in "cat" and "bed"
- /a/ as in "pappa"
- /æɪ/ (æ) as in "feet" and "boot"
- /ɪ/ as in "debit" and "boot"
- /i/ as in "law" and "loudness"
- /oʊ/ as in "oh" and "change"
- /k/ as in "click" and "boot"
- /tʃ/ as in "change" and "loudness"

The arrows indicate the pitch levels, with "loudness" and "pitch" at the top and bottom. This diagram helps in understanding the pronunciation and sound distinctions in English.
Video: EyeToy
Video: GestPoint
Video: Emotion Engine
HRI
• Roomba
• Cooking Robots
• Kismet
• Geminoid
• Triage Avatar
Video: Roomba
Video: Cooking Robots
Kismet
Video: Kismet
Video: Kismet and Kid
Video: Geminoid