Software Agents Group

Henry Lieberman

Christopher Fry  Karthik Dinakar
Kasia Hayden   Birago Jones
Dustin Smith    Janet Baker
Janet Baker

Speech Recognition
Update: Cyberbullying project
- Dinakar, Jones

Detection of potential cases via Commonsense reasoning & LDA
Targeted education via Reflective Interfaces
Tools for social network providers
YouToo: Detection & Themes

Mixed-initiative LDA
Commonsense knowledge
You too!

Using unsupervised probabilistic natural language processing & sociolinguistics to interpret what teenagers are talking about.
News: MTV Deployment

Story matching

Indexing advice
Justify – Fry (New)

System to aid consensus decision making
Threaded forum discussion
Users make concise “points”
  Issue, opinion, or critique
Very rich ontology of point types (> 100)
  Pro, con, argument types, reasoning, process
Automatic summarization at all levels
Justify

“Spreadsheet” for arguments
Meeting minutes
Selective presentations
Justify Facilitating Rational Deliberation
user: lieber@media.mit.edu

- econo
- unde
- unde
- unde
- unde
- unde

Which price point of our product should we make first?

Features to include

- unde
- unde
- unde

retail price

5

multiplier for parts cost

unde

total parts cost

$50

necessary basic parts

$10

faster processor

unde

high res screen

ignore

high res camera

pro

Should you invest in this company?

point.box.discussion

Points of type ‘discussion’ contain subpoints about a particular theme. Typical subpoints are questions and box.agenda. The superpoint of a discussion must be a folder. Discussions cannot be nested.

Justify helps people with the process of making decisions, but the wrong people can derail even the best of processes. The attributes of discussion form a sophisticated method of restricting access to the discussion with maximal
OEL: Negotiating Meaning in Natural Language - Smith

Handles ambiguity and vagueness
Takes goals into account
Disambiguates with “Did you mean?” queries
Interpretation and generation using belief state planning
Which Kindle do you want?

This interface demonstrates language generation and interpretation as belief-state planning and
Come see us in E 15 (with Civic Media)