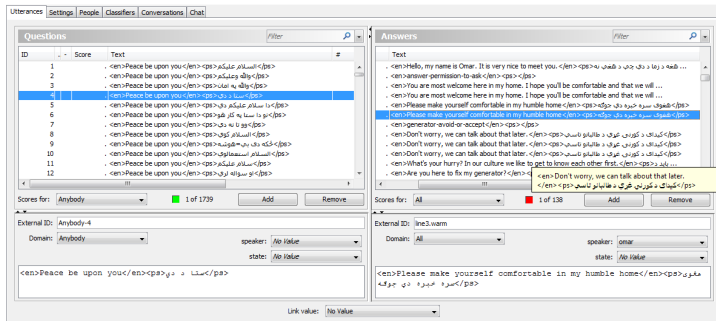


USC Centers for Creative Technologies

Lead Investigator: David Traum
 Team Members: Ron Artstein,
 Anton Leuski, Kenji Sagae,
 Kallirroi Georgila, David DeVault



Unique qualifications and capabilities

- Tightly integrated team of computer scientists, linguists and programmers
- We build interactive conversational spoken dialogue systems
- We focus on extraction of meaning from noisy ASR output
- We have experience working with little training data

We would like to join a team that does basic speech recognition research and is interested in integrating high-level linguistic knowledge.



Research Experience

- Robust understanding of conversational ASR output:
 - Parsing
 - Utterance classification
- Techniques from cross-lingual information retrieval on ASR output for spoken dialogue
- Simulation of ASR errors for training and testing of parsers, classifiers etc.
- Recovery from ASR errors using phonetic dictionaries
- Prediction of full utterance meaning based on partial ASR results
- Developed interactive Pashto speaking conversational character in under 3 months

Areas of interest

- Using high-level knowledge (semantics, pragmatics etc.) to improve ASR results

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