Interspeech 2018: Perspective Talk - 1

Dilek Hakkani-Tur
Research Scientist, Amazon, USA

Webpage
https://scholar.google.com/citations?user=GMcL_9kAAAAJ&hl=en

Title: Deep Learning based Situated Goal-oriented Dialogue Systems

Abstract
Interacting with machines in natural language has been a holy grail since the beginning of computers. Given the difficulty of understanding natural language, only in the past couple of decades, we started seeing real user applications for targeted/limited domains. More recently, advances in deep learning-based approaches enabled exciting new research frontiers for end-to-end goal-oriented conversational systems. In this talk, I'll review end-to-end dialogue systems research, with components for situated language understanding, dialogue state tracking, policy, and language generation. The talk will highlight novel approaches where dialogue is viewed as a collaborative game between a user and an agent in the presence of visual information, and will aim to summarize challenges for future research.

Biography
Dilek is a research scientist at Amazon and has previously held research scientist positions at Google, Microsoft Research, ICSI, and AT&T Labs – Research. She is a fellow of the IEEE and of ISCA. Her research interests include conversational AI, natural language and speech processing, spoken dialogue systems, and machine learning for language processing.