

Distinguished Speaker Series

Friday, November 17 at 12:30pm, NTDP F285

Personalized Neural Conversation Models and Other Research Projects at Snapchat

Dr. Vitor Carvalho



Abstract

In this talk we will start by briefly overviewing some of the projects currently under consideration at Snap Research. Then we will focus on recent advances in Deep Learning that have sparked an interest in modeling language, particularly for personalized conversational agents that can retain contextual information during dialog exchanges. We explore and compare several of the recently proposed neural conversation models, and carry out an evaluation of the multiple factors that can affect predictive performance. Based on the tradeoffs of different models, we propose a new neural generative dialog model conditioned on speakers as well as context history that outperforms previous models on both retrieval and generative metrics.

Bio

Vitor Carvalho is a Lead Research Scientist at Snap Research. He is interested in applied research interfacing Machine Learning, Natural Language Processing, Data Mining and Search. He finished his PhD at Carnegie Mellon University working under William W. Cohen. He holds multiple patents, tens of papers in top conferences, and has more than 10 years of R&D experience in institutions such as Snap Research, Qualcomm Research, Microsoft Bing, Ericsson and Inome. Vitor can be found @vitroc.