Sarah Bargal
PhD candidate
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Sarah is a PhD candidate in the Image and Video Computing Group of the Computer Science Department at Boston University. Sarah is also an IBM PhD fellow and a Hariri PhD fellow. Her research interests lie in the intersection of Computer Vision and Machine Learning.

Sarah is advised by Prof. Stan Sclaroff; They are particularly interested in developing deep learning formulations for the analysis of human motion and activities in video.

Explainable AI: Why Do Deep Models Make Certain Decisions?

Deep models are state-of-the-art for many vision tasks including video action recognition and video captioning. Models are trained to caption or classify activity in videos, but little is known about the evidence used to make such decisions. Grounding decisions made by deep networks is an important aspect of understanding why a deep network makes a certain prediction.

We visualize the spatiotemporal cues that contribute to a deep model’s classification/captioning output using the model’s internal representation. Based on these spatiotemporal cues, we are able to localize segments within a video that correspond with a specific action, or phrase from a caption, without explicitly optimizing/training for these tasks.

Guest Speaker for EE 193 Software Engineering

Tuesday, October 30, 2018
Halligan 102
6:00 PM