

Causal Inference Program Opening Workshop December 9-11, 2019

SPEAKER TITLES/ABSTRACTS

Peter Spirtes

Carnegie Mellon University

"Simplicity Concepts for Causal Inference"

Consistency proofs for causal inference algorithms generally require some assumptions that make simple causal theories preferable to more complex causal theories. There are a number of different simplicity assumptions that have been proposed, including a variety of faithfulness assumptions (that all conditional independence relations that hold in the population are entailed by the true causal graph) of various strength, parametric assumptions, and sparsity assumptions. I will discuss the strengths and weaknesses of the various simplicity assumptions, and whether there is some unifying concept underlying them.