Department of Economics – Neuroeconomics Seminar

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Pamela K. Douglas
UCLA

Transparency in Deep Learning for Neuroimaging

Deep neural networks have transformed computational analysis across a variety of domains, leading to discussions about automation replacing human labor. However, in cognitive neuroscience applications, the goal is often to leverage these models for their explanatory power to better understand the variables that subserve predictions.

In this sense, the goal may be to keep humans in-the-loop, by providing explanations that may drive neuroscientific discovery or identify instances of model failure. Here, recent advances in explainable AI and challenges for applications to functional neuroimaging data are discussed.