Plan C

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August 23, 2018

Abstract

Starting from this analogy:

逻辑语法 神经网络 graph re-writer
$$\downarrow \qquad \approx \qquad \qquad \downarrow \qquad \qquad (1)$$
 partial model graph model

The object being optimized is a set of logic formulas, or a model-rewriting function. This is our domain D. If the function is parametrized then the domain is \mathbb{R}^n and we're back to traditional optimization.

The model space can also be designed. The most "geometric" model may be a set of points and a set of regions defined by micro-NNs. The model rewriter will look at a local region in the model, which would be some points and some regions. But the function that acts on this partial model is still "weird".

1 A recap of reinforcement learning

The crucial step is the Bellman update.