Deep algebraic-geometric learning — white paper

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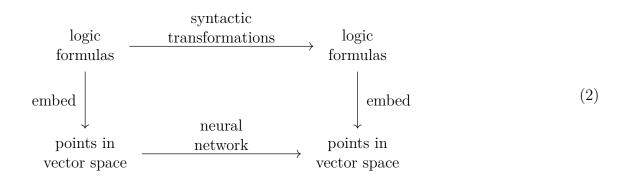
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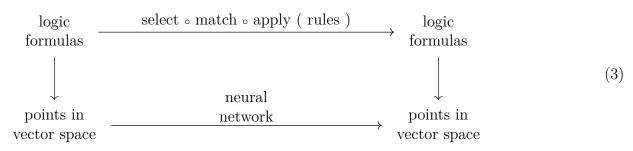
Abstract

$$rules = polynomials (1)$$

The polynomials are constructed with layers.

They can be learned via back-prop, because differentiable.





polynomials
$$\xrightarrow{syntactic}$$
 polynomials
$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$
points \xrightarrow{NN} points \longrightarrow points