PAC LEARNING & OCCAM'S RAZOR PROBABLY APPROXIMATELY INCORRECT

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BACKGROUND

Computer scientists have provided a distinct justification of Occam's Razor. Within the context of the probably approximately correct framework, Blumer et al. (1987) prove the theorem below.

They claim the theorem demonstrates that we should favour simpler hypotheses in our inquiry, and thus that they have vindicated Occam's Razor.

If there exists an Occam algorithm \mathcal{O} for a family \mathcal{H} of hypothesis spaces, then \mathcal{H} is PAC-learnable.



for a family \mathcal{H} of hypothesis spaces, then \mathcal{H}



