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李平: Model-Based Explanation in Science

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Model-Based Explanation in Science *With a brief comparison of five models of scientific explanation*

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Abstract:

It is important to identify a set of foundational problems concerning the underlying cognitive processes or mechanisms of explanations in science and everyday life in order to promote a cognitive study of explanation. This talk addresses the three basic cognitive questions of explanation: (1) how to represent explanations; (2) how to computationally modeling the generation of explanations – that is, what are the generative modes of explanations, or what are the mental and neural mechanisms by which explanations are constructed; and (3) what are the explicit/implicit cognitive constraints and the socio-cultural constraints on explanation generation? As one kind of plausible answers of these questions, the presentation will substitute the standard sentential (or prepositional) view of explanation in philosophy of science and artificial intelligence with the multi-form mental representation thesis, argue for the claim that explanation is model-based reasoning and a semantic process of model-based understanding, and characterize a psychological-computational model of explanation in terms of the account of mental modeling. Finally, I try to briefly compare this model with other four computational (deductive, schematic, probabilistic, and neural) models of scientific explanation based on Thagard's very recent important work on explanation and abduction.


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