

Combining Logics

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The subject of combining logics is but a particular instance of a broader activity of combining reasoning. Most of the factual reasoning can be seen as combinations of time, belief, knowledge, possibility, necessity, permission, prohibition, and so on, not to mention wishes, analogy and other harder corners of rationality. In formal logic combinations of logics can be achieved by mixing distinct operators obeying logics of different nature, and this requires new, wide scoped, methods in logic, with all the expected technical difficulties. The topic has also a natural interest in Computer Science, where the needs for integrating several systems into a homogeneous environment, with issues such as modularity, reusability, and so on are more and more important requirements. But combining logics, besides some difficult problems, also brings some surprises. We aim to offer some hints on the topic, with some illustrative examples.

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Host: Torben Braüner

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