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Abstracts of Short Communications and Posters

Section:

1. Logic

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Boolean algebras and information-dependent entailment relations
Consider a Lindenbaum-Tarski algebra $\mathcal{B} = (B, \models, \neg, \wedge, \vee, \bot, \top)$. We are interested in inducing new Boolean algebras by generalizing the classical entailment relation $\models$ to a data-dependent relation in light of information which is indeterminate, but for which we know the range of possible variation of its logical strength. The algebraic relationships between $\mathcal{B}$ and the induced Boolean algebras will be discussed as well as links with the work of Theo Kuipers.