Seminário de Teoria da Computação

Preferential Logic: A Modal Logic for Counterfactual Reasoning

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Abstract. Preferential logics are part of a family of conditional logics intended for counterfactual reasoning, allowing to infer and to withdraw conclusions in the presence of new facts. Sequent or tableau calculi for such logics are notoriously hard to construct, and often require additional syntactic structure. Various conditional logics require nested sequents, labelled sequents or special transition formulae, together with non-trivial proofs of either semantic completeness or cut elimination. In this talk, we present a recently developed resolution-based calculus for the preferential logic S and argue that its pure syntactic nature makes it well suited for automation.