

ANUNCIO DE CONFERENCIA

MODAL LOGIC WITH NON-DETERMINISTIC SEMANTICS

a cargo de

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Resumen: In 1988, Ivlev proposed four-valued non-deterministic semantics for modal logics in which the alethic (T) axiom holds well. Unfortunately, no completeness was proved. In previous work, we proved completeness for some Ivlev systems and extended his hierarchy, proposing weaker six-valued systems in which the (T) axiom was replaced by the deontic (D) axiom. Here, we eliminate both axioms, proposing even weaker systems with eight values. Besides, we prove completeness for those new systems. It is natural to ask if a characterization by finite ordinary (deterministic) logical matrices would be possible for all those systems. We will show that finite deterministic matrices do not characterize any of them.

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