

► ALFONSO CABANZO,

*A deductive justification of analogical arguments via intensional equality.*

Secretaría de Educación del Departamento del Cesar, Colombia.

*E-mail:* [alfonsocabanzo@educacioncesar.gov.co](mailto:alfonsocabanzo@educacioncesar.gov.co).

This talk proposes a deductive justification for analogical arguments based on an intensional notion of possible equality. It introduces an inferential operational principle (DS), formulated within a first-order intensional modal logic, which accounts for analogical inference. The strength of an analogical argument is explained in terms of modal attenuation: its conclusion is more or less possible depending on the number of possible worlds in which it holds true. To this end, we extend first-order intensional logic by introducing a revision operator characteristic of dynamic logics together with a sphere-based semantics. On this basis, similarity is understood as a form of intensional equality rather than as a primitive relation. A formal semantics is presented to explain the inferential role of this notion. The talk concludes by showing how this proposal satisfies the logical criteria expected of a sound justification for analogical arguments.

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