

SFB/TR 8 Spatial Cognition / IQN Video Conference

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Vague region-based geometry and the formal ontology of material entities

I argue that vague mereo-geometric relations such as close, near, far, etc. are critical ingredients of a formal ontology of material entities. Based on this motivation I present a mereo-geometry with vague distance relations. Using standard mereological relations, a sphere-predicate, and vague size relations such as roughly-the-same-size-as and negligible-in-size-with-respect-to, vague distance relations such as close-to, near-to, away-from, and far-away-from are defined and their logical properties are investigated.

In developing the formal theory, I draw upon work on order of magnitude reasoning in Artificial Intelligence.

!!!!Spacial Date! Special Time!!!

Dienstag, 26. Mai 2009

informelle Kaffeerrunde: 10.45

Vortragsbeginn: 11.00 Uhr

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