ELEMENTARY ONTOLOGY AND THE CLASSICAL CALCULUS OF RELATIONS

S u m m a r y

The notion of relation is one of the most important concepts present in our language.

This study propose some extension of elementary ontology (**OE**) for relational variables and defining in his framework the concepts of the classical calculus of relations. Such enriched elementary ontology (**OER**) is a better tool for the analysis of natural language.

It is shown that syllogistic with the negative terms enriched by so called *oblique syllogisms* (**SNU** with the axioms C1–C5) is a fragment of **OER** system (Theorem 1).

The **OER** system is enriched next with individual variables (*a*,*b*,*c*) and by assuming the individual term referentiality (axiom A2) we obtain **OER*** system. The Proof that the classical calculus of relations (**KRR**) is a part of the system **OER*** (Theorem 2) is given.

Summarised by Eugeniusz Wojciechowski

Słowa kluczowe: ontologia elementarna, systemy Leśniewskiego, sylogizmy ukośne, klasyczna teoria relacji.

Key words: elementary ontology, Leśniewski's systems, oblique syllogisms, classical calculus of relations.

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