Woltzenlogel Paleo, Bruno

Para-disagreement logics and their implementation through embedding in Coq and SMT. (English) Zbl 1439.03066

Carnielli, Walter (ed.) et al., Contradictions, from consistency to inconsistency. Cham: Springer. Trends Log. Stud. Log. Libr. 47, 139-158 (2018).

Summary: On closer inspection many apparent contradictions turn out to be mere disagreements between distinct sources of information. For example, if a source s_1 says P and a source s_2 says $\neg P$, their disagreement would only become an actual contradiction if we naively merged what they say into our own knowledge base.

For the entire collection see [Zbl 1419.03004].

MSC:

03B53 Paraconsistent logics
03B35 Mechanization of proofs and logical operations

Software:

Archive Formal Proofs; Coq; Gen2sat; GoedelGod; intuit; smt; SMT-LIB; z3

Full Text: DOI

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