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2020年11月

The 50th IEEE International Symposium on Multiple-Valued Logic (ISMVL 2020)

Completeness of sublattice logic

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In this study, a new trilattice logic called sublattice logic (STL) is introduced in the form of a monosequent calculus, which is based on a restricted sequent that contains exactly one formula in both the antecedent and the succedent. Further, the completeness (with respect to the lattice-valued semantics), cut-elimination, decidability, and Craig interpolation theorems for STL are proved using an embedding-based technique.