

情報電子工学科 論文発表

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| 題名 | Modal multilattice logic |
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| 概要 | A modal extension of multilattice logic, called modal multilattice logic, is introduced as a Gentzen-type sequent calculus MMLn. Theorems for embedding MMLn into a Gentzen-type sequent calculus S4C (an extended S4-modal logic) and vice versa are proved. The cut-elimination theorem for MMLn is shown. A Kripke semantics for MMLn is introduced, and the completeness theorem with respect to this semantics is proved. Moreover, the duality principle is proved as a characteristic property of MMLn. |