

情報電子工学科工学科 論文発表

題名	Yet another parafinite logic: The role of conflation (Logic Journal of the IGPL, Oxford University Press, Published online first, 2018)
掲載雑誌	Logic Journal of the IGPL, Published online first, Oxford University Press, 2018.
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概要	<p>In this study, we introduce a parafinite logic (PL) given by a Gentzen-type sequent calculus as a modified extension of Arieli, Avron, and Zamansky's ideal four-valued parafinite logic known as 4CC. Some combined implication-conflation logical inference rules in PL are formalized based on a characteristic axiom scheme for connexive logic. Our sequent calculus PL has the characteristic properties of quasi-paraconsistency and quasi-paracompleteness that represent the interaction between conflation and paraconsistent negation. We prove several theorems for syntactically and semantically embedding PL into LK, a Gentzen-type sequent calculus for classical logic, and vice versa. We obtain cut-elimination and completeness theorems for PL via these embedding theorems. Moreover, we introduce an extended parafinite logic (EPL) that is theorem-equivalent to a Gentzen-type sequent calculus for 4CC. Our sequent calculus EPL has the novel characteristic property of negative symmetry that represents a type of symmetry between conflation and paraconsistent negation.</p>