情報電子工学科　招待講演

学会名/ 会議名/ 企業名など	The 3rd Workshop on connexive logics
演題名	【学術会議招待講演】Bi-classical connexive logic and its modal extension: Cut-elimination, completeness and duality
発表者	Norihiro Kamide
内容	In this study, a new paraconsistent four-valued logic called bi-classical connexive logic (BCC for short) is introduced as a Gentzen-type sequent calculus. Cut-elimination and completeness theorems for BCC are proved, and it is shown to be decidable. Duality and quasi-symmetry properties for BCC are demonstrated as its characteristic properties. These properties do not hold for typical paraconsistent logics with an implication connective. The same results as those for BCC are also obtained for MBCC, a modal extension of BCC.