# 情報電子工学科　学会発表

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| 学会名 | The 46th IEEE International Symposium on Multiple-Valued Logic (ISMVL 2016) |
| 演題名 | Paraconsistent double negation that can simulate classical negation |
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| 内容 | In this study, a new classical paraconsistent logic (CP), which is a variant of Nelson's paraconsistent four-valued logic, is introduced as a Gentzen-type sequent calculus. The logic CP can simulate the classical negation in classical logic by paraconsistent double negation in CP. Some theorems for syntactically and semantically embedding CP into a Gentzen-type sequent calculus LK for classical logic and vice versa are proved. The cut-elimination and completeness theorems for CP are also shown using these embedding theorems. |