

Theorem on Inconsistency of The Classical Logic

Authors : T. J. Stepien, L. T. Stepien

Abstract : This abstract concerns an extremely fundamental issue. Namely, the fundamental problem of science is the issue of consistency. In this abstract, we present the theorem saying that the classical calculus of quantifiers is inconsistent in the traditional sense. At the beginning, we introduce a notation, and later we remind the definition of the consistency in the traditional sense. $S1$ is the set of all well-formed formulas in the calculus of quantifiers. $RS1$ denotes the set of all rules over the set $S1$. $Cn(R, X)$ is the set of all formulas standardly provable from X by rules R , where R is a subset of $RS1$, and X is a subset of $S1$. The couple $\langle R, X \rangle$ is called a system, whenever R is a subset of $RS1$, and X is a subset of $S1$. Definition: The system $\langle R, X \rangle$ is consistent in the traditional sense if there does not exist any formula from the set $S1$, such that this formula and its negation are provable from X , by using rules from R . Finally, $\langle R0+, L2 \rangle$ denotes the classical calculus of quantifiers, where $R0+$ consists of Modus Ponens and the generalization rule. $L2$ is the set of all formulas valid in the classical calculus of quantifiers. The Main Result: The system $\langle R0+, L2 \rangle$ is inconsistent in the traditional sense.

Keywords : classical calculus of quantifiers, classical predicate calculus, generalization rule, consistency in the traditional sense, Modus Ponens

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