



**CRITERION OF FUNCTIONAL FULLNESS WITH TWO
CONDITIONS IN MANY-VALUED LOGIC**

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Abstract

The first criterion of functional fullness was created in 1938 and contained k^k conditions. The number of conditions was succeeded to reduce to 3 conditions. Using Salomaa's criterion (with $k!$ conditions, 1962) and calculations by computer we have found 2 conditions. Two programs of the calculations are presented in Appendix. We argue that a criterion with one condition is not exists.

Keywords and phrases: first criterion of functional fullness, Salomaa's criterion.

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