Summary: The problem of generating polynomial invariants of special type for iterative loops with a linear mapping in the loop body is considered. A technique is proposed to generate such invariants based on the analysis of characteristic polynomials of linear mappings.

MSC:
68Q60 Specification and verification (program logics, model checking, etc.)
68N20 Theory of compilers and interpreters

Keywords:
static program analysis; polynomial loop invariants; automatic generation problem

Full Text: DOI

References:

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