**Lübeck, Frank**

**On the computation of elementary divisors of integer matrices.** (English) Zbl 1017.65037

J. Symb. Comput. 33, No. 1, 57-65 (2002).

The author describes a semi-modular algorithm which computes, given a matrix $A$ of known rank and a prime $p$, the multiplicities of $p$ in the factorizations of the elementary divisors of $A$. Numerical examples, calculated via software dveloped by the author, illustrate the theory.

Reviewer: Nikolai L.Vulchanov (Warszawa)

**MSC:**

65F30 Other matrix algorithms (MSC2010)
15A21 Canonical forms, reductions, classification
68W30 Symbolic computation and algebraic computation

Cited in **4** Documents

**Keywords:**

elementary divisors; integer matrices; semi-modular algorithms; numerical examples

**Software:**

EDIM; GAP; Magma

**Full Text:** DOI

**References:**

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