

**Basin, David; Denker, Grit**

**Maude versus Haskell: An experimental comparison in security protocol analysis.** (English)

[Zbl 0962.68056](#)

Futatsugi, Kokichi, The 3rd international workshop on rewriting logic and its applications, RWLW. Kanazawa City Cultural Hall, Kanazawa, Japan, September 18-20, 2000. Amsterdam: Elsevier, Electronic Notes in Theoretical Computer Science. 36, 22 p., electronic only (2000).

Summary: We compare two executable languages: the rewriting logic based specification language Maude and the higher-order, lazy, functional programming language Haskell. We compare these languages experimentally on a problem in modeling and reasoning about a security protocol for authentication. We explore differences in how models can be formalized and analyzed, as well as performance and tool use.

For the entire collection see [[Zbl 0957.00046](#)].

**MSC:**

- [68P25](#) Data encryption (aspects in computer science)
- [68Q60](#) Specification and verification (program logics, model checking, etc.)
- [68Q42](#) Grammars and rewriting systems
- [68N15](#) Theory of programming languages

Cited in **3** Documents

**Keywords:**

rewriting logic based specific language; Maude

**Software:**

GHC; Casper; ELAN; Maude; Haskell

**Full Text:** [Link](#)