A computer algebra system: Risa/Asir? (English) Zbl 1027.68152

Risa/Asir is a tool for performing various computations in mathematics and engineering applications, a computer algebra system for efficient algebraic computations. It is also designed to be a platform for parallel and distributed computation under the Open XM (open message eXchange for Mathematics) protocol. Open XM defines client-server communication between mathematical software systems and Risa/Asir is one of main components in the Open XM package. The source code of Risa/Asir is completely open and it is easy to modify the source code or to add new functions. In this paper, the author gives an overview of Risa/Asir, explains its functions and implemented algorithms with their performances, the Open XM API and the way to built-in functions.

For the entire collection see [Zbl 1008.00013].

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MSC:

68W30 Symbolic computation and algebraic computation

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Risa/Asir

Cited in 7 Documents