Lias Quintero, A. I.; Martinez Sanchez, A.
Automatic generation of the FORTRAN routine by optimization methods. (Spanish. English summary) Zbl 0792.68068

Summary: [For the entire collection see Zbl 0741.00014.]
Symbolic computation specializes in the exact computation with numbers, symbols, formulae, equations and so on, but not for performing efficiently numerical calculations. In our work we deal with numerical problems, particularly the minimization of a multivariate function using MAPLE system to generate FORTRAN subroutines.

MSC:
68W30 Symbolic computation and algebraic computation
65K99 Numerical methods for mathematical programming, optimization and variational techniques

Keywords:
symbolic computation; MAPLE; FORTRAN

Software:
Maple