



# Corrigendum: Algorithm 729 FORTRAN Subroutines for General Toeplitz Systems

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This paper presents FORTRAN 77 implementations of the lookahead Levinson algorithm of Chan and Hansen [7, 8] for solving symmetric indefinite and general Toeplitz systems. The algorithms are numerically stable for all Toeplitz matrices that do not have many *consecutive* ill-conditioned leading principal submatrices, and also produce estimates of the algorithm and matrix condition numbers. In contrast, the classical Levinson algorithm is only guaranteed to be numerically stable for symmetric positive definite Toeplitz matrices, and no condition estimate is produced.

Categories and Subject Descriptors: G.1.3 [**Numerical Analysis**]: Numerical Linear Algebra—*linear systems (direct and iterative methods)*; G.4 [**Mathematics of Computing**]. Mathematical Software—*algorithm analysis*

General Terms: Algorithms, Performance

Additional Key Words and Phrases: Condition estimation, Levinson's algorithm, Toeplitz systems

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