Generic Graph Algorithms for Sparse Matrix Ordering

The recently introduced programming paradigm known as *generic programming* [4,

with the Matrix Template Library (MTL) [5] for basic linear algebra, it has been clearly demonstrated that abstraction does not necessarily come at the expense of performance.

Symbolic factorization: Set up a data structure for Cholesky factor L of ^{T},
Numerical factorization: Decompose ^{T} into LL^T,
Triangular system solution: Solve $LL^T \quad x =$ for x.

5 Implementation

References