

CORRIGENDUM

TONY F. CHAN, "On the existence and computation of LU -factorizations with small pivots," *Math. Comp.*, v. 42, 1984, pp. 535–547.

The matrix factorization for PAQ at the end of Section 6 is wrong; it should read:

$$PAQ = \begin{bmatrix} 1 & 0 & \cdot & \cdot & \cdot & \cdot & 0 \\ 1 & 2 & 0 & \cdot & \cdot & \cdot & \cdot \\ \cdot & 1 & 2 & \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & 0 & \cdot & \cdot \\ 1 & \cdot & \cdot & \cdot & 1 & 2 & 0 \\ -1 & -1 & \cdot & \cdot & \cdot & -1 & 2 \end{bmatrix} \begin{bmatrix} -1 & -1 & \cdot & \cdot & \cdot & -1 & 1 \\ 0 & 1 & 0 & \cdot & \cdot & 0 & -2^{-1} \\ \cdot & \cdot & 1 & \cdot & \cdot & \cdot & -2^{-2} \\ \cdot & \cdot & \cdot & \cdot & \cdot & 0 & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot & 1 & -2^{-(n-2)} \\ 0 & \cdot & \cdot & \cdot & \cdot & 0 & 2^{-(n-1)} \end{bmatrix}.$$

The error does not affect any other part of the paper nor the conclusions.

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