

Algorithm 1 Wavelet Row Transform 1- D to 2 -D Method

Require: Wavelet Transform, , and Wavelet Pair (ψ and ϕ)

Require: Matrix, $S \in \mathbb{R}^{N \times M}$

for $i = 0$ to $N - 1$ **do**

$R = S.getRow(i)$

$S.row(i) = [R * \phi, R * \psi]$

end for
