$\psi^{\mathbf{n}}$ Expansion

Algorithm 1 Wavelet Transform: MRE with queue controlled visits of the Quad Tree

Require: Wavelet Transform, MRE, and wavelet pair (ψ and ϕ)

Require: Matrix S

Load S into temporary matrix T

for i = 1 to n do

 $T \xrightarrow{\psi_c} X$ $X \xrightarrow{\psi_r} T$

end for return T as the transformed matrix