Notation

- $\psi_{1R}(S)$ is the row transform of matrix S.
- $\psi_{1C}(S)$ is the column transform of matrix S.
- ψS is the 2-D wavelet transform of matrix S.
- $\langle f, g \rangle = \langle \psi_1(f), \psi_1(g) \rangle$
- $A' = \psi(A)$
- $B' = \psi(B)$
- $A^R = \psi_{1R}(A)$
- $B^C = \psi_{1C}(B)$
- A^R_{ri} is the row vector i of the row transform of A.
- A^R_{ri+1} is the row vector $i+1$ of the row transform of A.
- B^C_{cj} is the column vector j of the column transform of B
- B^C_{cj+1} is the column vector $j+1$ of the column transform of B