The principle of LU (causal/anti-causal) factorization can be applied to other maximally decimated transforms: m-channel filter-banks, rational (non-dyadic) filter-banks...

Key points: New interpretation of the DWT that allows to concentrate on the analysis part. The synthesis follows from the PR property. This preliminary study opens new perspectives, with the same advantages as the lifting scheme: fast transform, in-place calculation, int.-to-int. transforms, extensions to separable multi-D domains, non-uniform domains...

The principle of LU (causal/anti-causal) factorization can be applied to other maximally decimated transforms: m-channel filter-banks, rational (non-dyadic) filter-banks...