Data Compression by nonlinear MR transforms

Rosa Donat

(in collaboration with F. Aràndiga₁ and J.J. Noguera₂)

Department of Mathematics, Universitat de València, Vallència, Spain

In this talk we will recall the theory of nonlinear multiresolution transformations and review their potential in image compression, specially for synthetic images. It will based, essentially, on previous works of the author and his collaborators, and some recent work on the ENO-wavelet transform.

References

- [1] Arandiga, F., Donat, R. Stability through synchornization in nonlinear multiscale transformations. SIAM J. on Scientific Computing, 29, 265–289, 2007.
- [2] Arandiga, F., Donat, R., J. J. Noguera Generalizing the ENO-DB2p transform using the inverse wavelet transform. *Numerical Algorithms*, **to appear**.