

# **The link between robust estimation and sparse representation**

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The main theme of this talk is to emphasize the importance of having an efficient representation leads to an efficient estimation method. The emergence of wavelets, which is followed by the wavelet shrinkage, is a striking example of this relation. Now we know that the sparsity stands out as the true paradigm behind all the related research on representation and estimation in various fields. This talk is geared towards the reasoning of this relation beyond sparsity, and provides a "WHY" by using robust statistics, first time in the literature with applications to video/image coding and denoising.