

Sparsity Preserving Reconstructions and Decompositions in (Mathematical) Image Processing

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Recent trends in sparsity preserving image reconstruction will be discussed. Among others, the presented topics include nonsmooth convex and nonconvex noise filters, fully automated choice rules for local filtering weights, and associated fast solution algorithms. Further, low rank / sparse decompositions of dynamic image data by optimization on Riemannian manifolds will be addressed.