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Sparse Recovery of Missing Image Samples Using a Convex Similarity Index

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Highlights

- The proposed Convex SIMilarity (CSIM) index is a good measure of perceptual quality.
- The conditions for robust and unique sparse recovery via CSIM are analyzed.
- Missing sample problem is solved by optimizing CSIM under l1-norm constraint.
- An iterative algorithm is obtained via Alternating Direction Method of Multipliers.
- The proposed algorithm is convergent and practically efficient in missing recovery.

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