

*** CS 7180: Special Topics in AI: High-Dimensional Data Analysis via Parsimonious Modeling and Probabilistic Graphical Models ***

*** List of Papers to Read on Sparse and Low-Rank Recovery ***

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1) Recognition

J. Wright et al, Robust Face Recognition via Sparse Representation, PAMI, 2008.

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2) Clustering

E. Elhamifar and R. Vidal – Sparse Subspace Clustering, Theory, Algorithm and Applications, PAMI 2013.

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3) Dictionary Learning

J. Mairal et al, Supervised Dictionary Learning, NIPS 2008.

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4) Subset Selection

E. Elhamifar, G. Sapiro, S. Sastry, Dissimilarity-based Sparse Subset Selection, PAMI 2016.

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5) Feature Extraction

Z. Zhang, A. Ganesh, X. Liang, Y. Ma, TILT: Transform Invariant Low-rank Textures, IJCV, 2012.

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6) Super Resolution

J. Yang, J. Wright, T. Huang, Y. Ma, Image Super-Resolution Via Sparse Representation, IEEE Trans. Image Processing, 2010.

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7) Signal Separation and Denoising

Huang, Chen, Smaragdis, Hasegawa-Johnson, Singing-Voice Separation from Monaural Recordings Using Robust Principal Component Analysis, ICASSP 2012.

H. Ji, C. Liu, Z. Shen and Y. Xu, Robust Video Denoising using Low Rank Matrix Completion, CVPR 2010.

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8) Sparse PCA

Y. Zhang, A. d'Aspremont, L. El Ghaoui, Sparse PCA: Convex Relaxations, Algorithms and Applications, Handbook on Semidefinite, Cone and Polynomial Optimization, 2011.