Reading Assignment
Last Update: October 30, 2017

Reading 1: L1LS
Code: https://stanford.edu/~boyd/l1_ls/

Reading 2: Gradient Projection
Code: http://www.lx.it.pt/~mtf/GPSR/

Reading 3: Basis Pursuit
Code: http://www.cs.ubc.ca/~mpf/spgl1/

Reading 4: Iterative Shrinkage Thresholding
Code: https://people.eecs.berkeley.edu/~yang/software/l1benchmark/

Reading 5: Greedy Algorithms
Greedy algorithms discussed in Elad Chapter 3.1:
• Orthogonal Matching Pursuit
• Matching Pursuit
• Weak Matching Pursuit
• Thresholding
• Least-squares Orthogonal Matching Pursuit
Code: These algorithms are fairly easy to implement by yourselves.
Reading 6  The FOCUSS Algorithm (Iterated Reweighted Least-Squares)
Code: http://dsp.ucsd.edu/~jfmurray/software.htm

Reading 7: ADMM Algorithm
Code: https://web.stanford.edu/~boyd/papers/admm/

Reading 8: Proximal Algorithm

Reading 9 Convolutional Sparse Coding
Code: http://brendt.wohlberg.net/software/SPORCO/

Reading 10 Message Passing
Code: I couldn’t find the exact code by the authors. The closest one is Rice University’s https://github.com/ricedsp/D-AMP_Toolbox

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