

Compressive Sensing & Sparse Signal Processing

Course Project Report

Title of the Paper Reviewed Goes Here

(E9-203-AbhayRollNumber-ChandraRollNumber)

by

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Feb. 04, 2013



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1 Paper Reviewed

Put the full reference of the paper here.

1.1 Primary Objective(s)

The main stated goals of the paper as a bulleted list. (About half a page.)

2 Problem Setup

Set down the notation, system model, etc. here.

As far as possible, use the same notation as in the class:

Symbol	Meaning
\mathbb{C}, \mathbb{R}	complex and real fields
m	number of measurements (observations)
N	length of a sparse vector (large!)
\mathbf{x}	sparse vector, $N \times 1$
\mathbf{A}	measurement matrix, $m \times N$
\mathbf{w}	noise vector, $m \times 1$

3 Main Results

What are the main points in the paper? This can be a short summary (about 1 page) of the main results obtained.

4 Algorithms and Methods Developed

If applicable/possible, include pseudo code.

5 Proofs, Details, etc.

Include all the proofs and details that you wish to show.

6 Critical comments on the results

If you have any ...

7 Simulation Results

*Describe the simulation setup, show some plots, and then **interpret your results**.*

8 Appendix

8.1 Mathematical background

If you had to pick some basic mathematical background to help you with the paper, explain it here

8.2 Matlab or C/C++ Code

Cut and paste the code here!

References

- [1] L. Zheng and D. Tse, "Diversity and multiplexing: A fundamental tradeoff in multiple-antenna channels," *IEEE Trans. Inf. Theory*, vol. 49, no. 5, pp. 1073–1096, May 2003.