

## Code for **Distributed Dictionary Learning** (Dec. 2014)

### DATASETS USED IN THE SIMULATIONS

**Reference:** J. Chen, Z. J. Towfic, and A. H. Sayed, "Dictionary learning over distributed models," to appear in *IEEE Trans. Signal Process.* 2015. Also available as [arXiv:1402.1515v2 \[cs.LG\]](https://arxiv.org/abs/1402.1515v2), Feb. 2014.

The datasets that were used in the simulations, and which are included in the file to facilitate running the experiments, originated from the following sources:

1. The image dataset originated from: <http://www.kyb.tuebingen.mpg.de/?id=227>

#### **References:**

J. H. van Hateren and A. van der Schaaf, "Independent component filters of natural images compared with simple cells in primary visual cortex," *Proc. Biological Sciences*, vol. 265, no. 1394, pp. 359--366, Mar. 1998.

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2. The microarray data originated from: <http://www.unc.edu/~haipeng/research.htm>

**Reference:** M. Lee, H. Shen, J. Z. Huang, and J. S. Marron, "Biclustering via sparse singular value decomposition," *Biometrics*, vol. 66, no. 4, pp. 1087--1095, Dec. 2010.

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3. The document detection data ( TDT2) is from: <http://www.itl.nist.gov/iad/mig/tests/tdt/1998/>  
The version that we used (with preprocessing done) originated from the paper:

S. P. Kasiviswanathan, H. Wang, A. Banerjee, and P. Melville, "Online L1-dictionary learning with application to novel document detection," in *Proc. NIPS*, Lake Tahoe, NV, Dec. 2012, pp. 2267--2275.