

TPA 13: Discriminative Subspace Clustering

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Problem Statement: Segmenting data drawn from a union of subspaces using the machine learning principle of Discriminative Clustering.

Input:

- Data instances

Expected Output:

- Cluster Label of instances

Dataset Hopkins 155 dataset [4], THE MNIST DATABASE [5]

References

1. C.-Y. Lu, H. Min, Z.-Q. Zhao, L. Zhu, D.-S. Huang, and S. Yan, Robust and efficient subspace segmentation via least square regression, in ECCV, 2012, pp. 347360
2. R. Vidal, Subspace clustering, IEEE Signal Processing Magazine, vol. 28, no. 3, pp. 5268, March 2011.
3. E. Oja, Subspace methods of pattern recognition. Research Studies Press, 1983.
4. <http://www.vision.jhu.edu/data/>
5. <http://yann.lecun.com/exdb/mnist/>
6. <http://users.isy.liu.se/en/cvl/zografos/>