

# Algorithms for Sparse Optimization

The sparsity of solutions is a recurrent requirement in many applications of operations research. Many variables can be forced to be equal to zero by introducing  $l_0$ -norm or  $l_1$ -norm terms into optimization models.

In this thesis we would like to experiment with algorithmic procedures specifically designed to deal with  $l_0$  or  $l_1$  terms in the general case or in specific applications.