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## **High Dimensional Sparse Econometric Models: An Introduction**

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(Submitted on 26 Jun 2011 (v1), last revised 2 Sep 2011 (this version, v2))

In this chapter we discuss conceptually high dimensional sparse econometric models as well as estimation of these models using L1-penalization and post-L1-penalization methods. Focusing on linear and nonparametric regression frameworks, we discuss various econometric examples, present basic theoretical results, and illustrate the concepts and methods with Monte Carlo simulations and an empirical application. In the application, we examine and confirm the empirical validity of the Solow-Swan model for international economic growth.

Subjects: **Applications (stat.AP)**; Methodology (stat.ME)

Journal reference: Inverse Problems and High-Dimensional Estimation, Lecture Notes in

Statistics, Vol. 203, 2011, pp. 121-156

Cite as: arXiv:1106.5242 [stat.AP]

(or arXiv:1106.5242v2 [stat.AP] for this version)

## Submission history

From: Alexandre Belloni [view email] [v1] Sun, 26 Jun 2011 18:21:14 GMT (1279kb) [v2] Fri, 2 Sep 2011 02:20:42 GMT (1279kb)

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