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High-dimensional additive hazard models and the Lasso

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(Submitted on 23 Jun 2011 (v1), last revised 2 Mar 2012 (this version, v2))

We consider a general high-dimensional additive hazard model in a nonasymptotic setting, including regression for censored-data. In this context, we consider a Lasso estimator with a fully data-driven \$\ell 1\$ penalization, which is tuned for the estimation problem at hand. We prove sharp oracle inequalities for this estimator. Our analysis involves a new "data-driven" Bernstein's inequality, that is of independent interest, where the predictable variation is replaced by the optional variation.

Subjects: Statistics Theory (math.ST) MSC classes: 62N02 Cite as: arXiv:1106.4662v2 [math.ST]

Submission history

From: Stéphane Gaïffas [view email] [v1] Thu, 23 Jun 2011 09:26:49 GMT (21kb) [v2] Fri, 2 Mar 2012 23:09:30 GMT (26kb)

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