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Subjects: Machine Learning (stat.ML) Cite as: arXiv:1106.0565 [stat.ML] (or arXiv:1106.0565v2 [stat.ML] for this version)

Multi-stage Convex Relaxation for Feature

A number of recent work studied the effectiveness of feature selection using Lasso. It is known that

feature selection property of nonconvex regularization, where the solution is given by a multi-stage

convex relaxation scheme. Under appropriate conditions, we show that the local solution obtained by this procedure recovers the set of nonzero coefficients without suffering from the bias of Lasso

under the restricted isometry properties (RIP), Lasso does not generally lead to the exact recovery of the set of nonzero coefficients, due to the looseness of convex relaxation. This paper considers the

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relaxation, which complements parameter estimation results of this procedure.

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