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BSVM: A Banded Suport Vector Machine

Gautam V. Pendse

(Submitted on 12 Jul 2011)

We describe a novel binary classification technique called Banded SVM (B-SVM). In the standard C-SVM formulation of Cortes et al. (1995), the decision rule is encouraged to lie in the interval [1, \infty]. The new B-SVM objective function contains a penalty term that encourages the decision rule to lie in a user specified range [\rho_1, \rho_2]. In addition to the standard set of support vectors (SVs) near the class boundaries, B-SVM results in a second set of SVs in the interior of each class.

Comments: 16 pages, 4 figures

Machine Learning (stat.ML); Computer Vision and Pattern Subjects:

Recognition (cs.CV)

Cite as: arXiv:1107.2347 [stat.ML]

(or arXiv:1107.2347v1 [stat.ML] for this version)

Submission history

From: Gautam Pendse [view email]

[v1] Tue, 12 Jul 2011 16:56:14 GMT (1666kb,D)

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